INDEX OF AUTHORS TO VOLUME 128

Adams, Forrest H., 1264
Al-Saleem, T. I., 1253
Anderson, Robert W., 719
Andreadis, Paul, 340
Artz, Curtis P., 1
Atkins, Paul, 818
Atkins, Sir Hedley, 1305
Austin, James H., 1247

Bailey, Charles P., 725
Baker, Daniel C., Jr., 311
Baldwin, Maitland, 308
Bartone, Francis F., 1221
Batsakis, John G., 1033
Beathard, Gerald A., 777
Belassa, Leslie, 1321
Bell, Peter, 327
Belzer, Folkert O., 975
Beneventano, Thomas C., 241
Bennett, Alan Hugh, 969
Berman, Irwin R., 8
Berne, Thomas V., 975
Bill, Alexander H., 831
Billig, Donal Michael, 1274
Birrell, W. R. S., 294
Birtch, Alan, 27
Bolognese, Ronald J., 1244
Bonadonna, G., 772
Botsford, Thomas W., 1209
Brasfield, Richard D., 841
Bredenberg, Carl E., 719
Brettschneider, Lawrence, 327
Brobyn, Thomas J., 351
Brockman, Stanley K., 753
Bucklew, W. Bruce, 591
Bulbrook, Richard D., 975
Burnett, W. Emory, 279

Campbell, Darrell A., 1215
Canales, Carlos O., 777
Carrier, Oliver, Jr., 571
Carter, David C., 1297
Casingal, Eduardo L., 85
Caswell, H. Taylor, 597
Chernigoy, Franz A., 806
Cherry, George, 97
Clements, James M., 745
Colgan, Frank J., 1283
Collins, John A., 719
Connolly, David P., 1226
Conolly, W. Bruce, 713
Constable, W. C., 294
Corson, Stephen L., 1244
Couch, Nathan P., 27, 533
Crane, Chilton, 27
Crile, George, Jr., 1042
Croom, Robert D., III, 793
Cross, Harold D., 46

Dagher, Fuad J., 985
Daily, Pat O., 565
Dalen, James, 27
Damascelli, B., 772
Danielides, Basil, 340
Dao, T., 489
Dardik, Herbert M., 241, 823
Dargan, Everett L., 1269
Das Gupta, Tapas K., 841
Davis, Ethel H., 358
Davis, Richard A., 1007
DeLaurentis, Dominic A., 279
Dennis, Daniel L., 546
DePalo, Angelo J., 1226
Deshpande, Nagesh, 975
Dexter, Lewis, 27
Dillon, M. L., 481, 1080
Dinstl, Karl, 77
Donald, James C., 831
Doty, Donald B., 1193
Ducker, Thomas B., 8
Duff, J. H., 1051
Dunphy, J. Englebert, 713

Edwards, W. Sterling, 829
Ellis, Frank G., 975
Engelman, Richard M., 745

Farrow, Joseph H., 1226
Fish, Jay C., 777
Fitts, C. Thomas, 1
Fogarty, Thomas J., 546
Foley, William J., 827, 1215
Fonkalsrud, Eric W., 601, 1264
Fox, Charles L., Jr., 1021
Fracchia, Alfred A., 1226
Fraser, Sir James, 1297
Freeark, Robert J., 761
Fukushima, Matsuo, 777

Gabrieli, Elemer R., 539
Gaeta, J., 489
Gardner, Bernard, 369
Gayle, William E., Jr., 495
Gill, William, 1297
Glenn, Frank, 49
Gliedman, Marvin L., 241, 823
Goldman, Leonard I., 279
Gollub, S., 725, 1235
Goodman, A. H., 801
Gordon, H. Earl, 88
Graber, Charles D., 1
Graham, John, 735
Graham, Ruth, 735
Gray, Stephen W., 350
Grigsby, William P., 609
Groves, A. C., 1051
Guida, Peter M., 1307

Haight, Camero, 1081
Harasym, Emil L., Jr., 1253
Hargest, Thomas S., 1
Harrison, J. Hartwell, 969
Hartsuck, James, 27
Hawkins, L. A., 818
Healey, John E., Jr., 1067
Heisterkamp, Charles A., III, 1193
Hering, Alexander C., 834
Herlocher, James E., 1215
Herrington, J. Lynwood, Jr., 600
Herrmann, John B., 745
Hill, R., 1297
Hirose, Teruo, 725
Holyoke, E. D., 953
Hume, David M., 495, 584, 963
Hunt, T. K., 713
Hutchin, Peter, 793
Hutchison, J. S. F., 91
Huvos Andrew G., 1226

Isard, Harold J., 1289

James, Paul M., 719
Jordan, Paul H., Jr., 1274
Just-Viera, Jorge O., 1081

Kahn, Arthur M., 88
Kakkar, V. V., 551
Kaplan, Louis, 117
Karow, Armand M., Jr., 571
Kim, Seuk K., 481, 1080
Kindt, Glenn W., 729
Kiriakou, Kiriakos, 340
Knudsen, D. Frederick, 565
Koenig, M. Glenn, 753
Kratzer, Guy L., 348
Krippaehne, William W., 546
Krush, A. J., 1027
Kurian, George, 1070
Kwaan, Hau Ming, 37

Langston, Hiram T., 1065
LaPointe, R., 1051
Lee, J. C., 62
Lemieux, Michael D., 533
Levin, William C., 777
Levitsky, Sidney, 719
Levy, Roger N., 605
Lewis, S. R., 312
Little, J. M., 801
Ludewig, Robert M., 252
Luttwak, Edmund M., 603
Lyall, A. D., 15
Lynch, H. T., 1027
Lyon, David C., 991

MacLean, L. D., 1051
MacMahon, Brian, 1247
MacRae, Jean G. C., 15
Maeck, John Van S., 304
Mahoney, Paul D., 1283
Maier, Willis P., 351, 597, 1253
Marmor, Leonard, 788
Martorelli, Braz, Jr., 1001
Mason, Edward E., 806
Matloff, Jack, 27
Mattson, W. J., Jr., 557
McAdam, W. A. F., 91
McGavic, J. D., 584
McGuire, Robert L., 327
McLean, A. P. H., 1051
McNeill, A. D., 91
McSherry, Charles K., 49
Meacham, William F., 1066
Melly, M. Ann, 753
Menguy, René B., 301
Miller, Donald S., 358
Mokkhavesa, S., 103
Moore, George E., 1294
Moore, J. George, 1001
Moore, S. W., 1307
Moore, Thomas C., 81
Mooty, Joyce, 283
Morrow, James W., 591
Moseley, Roger V., 1193
Musicant, Michael E., 108
Musumeci, R., 772
Myers, M. Bert, 97

Nabatoff, Robert A., 275
Nadler, Sigmond H., 119
Najarian, J. S., 62
Nathan, Marshall, 1033
Nelson, Gerald D., 518
Nemoto, T., 489
Nozaki, Masahiko, 1264

Omer, George E., Jr., 813
Ostrum, Bernard J., 1289
Ozeran, Robert S., 1202

Pace, William G., 21
Paglia, Michael A., 841
Paletta, F. X., 518
Panossian, Alex M., 985
Parshley, Mary S., 1001
Passi, Ronald B., 322
Patterson, Frank P., 103
Patterson, Hubert C., 828
Peacock, Erle E., Jr., 1061
Pearson, Elinor, 283
Penn, Israel, 327
Phelan, John T., 119
Porter, Kenneth A., 327
Postlethwait, R. W., 481, 1080
Prioleau, William H., 115
Prudden, John F., 1321
Putnam, Charles W., 327

Quick, Armand J., 523

Raben, Maurice S., 283
Rakolta, George G., 813
Ramirez, Alfredo T., 283
Rangel, Decio M., 1264
Rappole, Bert W., 1021
Remmers, A. R., Jr., 777
Ritzmann, Stephan E., 777
Robertson, G. S., 15
Rosemond, George P., 351, 1253
Rosen, Richard G., 241
Rosenau, W., 62
Rush, Benjamin F., Jr., 319
Rybak, James J., 21

Saab, Salim B., 985
Salfelder, Karlhanns, 259
Salvatierra, Oscar, Jr., 591
Sarles, Harry E., 777
Saypol, George M., 1070
Schaefer, Clara, 1235
Scharli, Alois, F., 355
Schechter, David Charles, 725, 1235
Schein, Clarence J., 241, 823
Schloerb, Paul R., 315
Schnur, Paul L., 1016
Schofield, Philip F., 1042
Schor, Stanley S., 1253
Schwartz, Melvin S., 283
Schwarz, Jan, 259
Sheiner, H. J., 991
Shilo, Ruth, 1289
Shim, Sun Shik, 103
Shires, Thomas K., 1221
Shumway, Norman E., 565
Sieber, William K., 355
Siffert, Robert S., 605
Simmons, Richard L., 719, 1193
Skandalakis, John E., 350
Smellie, W. A. B., 81, 963
Smith, Alan G., 85
Smith, Richard N., 533
Sonne, M., 713
Soroff, Harry S., 283
Stanford, William, 1021
Starzl, Thomas E., 327
Stevens, Gary H., 1264
Stevenson, Eugene O. S., 1202
Stinson, Edward B., 565
Stubbe, N., 489
Stubenbord, William T., 49
Sturim, Howard S., 129
Symmonds, Richard E., 1016

Tassoni, Ernest M., 1253
Thomas, Clarence S., Jr., 753
Thomford, Neil R., 21
Thompson, James C., 108
Thompson, Norman W., 1215
Tofield, Joshua J., 1069
Tountas, Constantin, 340
Toussis, Demetrios, 340
Trapp, William G., 103
Truskett, I. D., 294
Turcotte, J. G., 557
Tyson, Kenneth R. T., 777

Uslenghi, C., 772

Vanichanan, Chotip, 1235
Vasko, John S., 322
Vinik, M., 963

Wangensteen, Stephen L., 252
Warren, Allan, 823
Watkins, David H., 1304
Weil, Max Harry, 37
Weinberger, Malvin, 279
Weiner, Stuart, 1007
Weiss, L., 953
Whitson, Theodore C., 1061
Williams, Arthur V., 1
Williams, G. Melville, 495
Williams, Roger D., 1047
Williams, Tiffany J., 1016
Wolarsky, Evan R., 1321
Wolf, James S., 584
Wood, James A., 546
Wray, James B., 309

Yakeishi, Yozo, 1264
Youmans, Julian R., 729

Zollinger, Robert M., Jr., 27, 1209

SUBJECT INDEX TO VOLUME 128

ABNORMALITIES AND DEFORMITIES
congenital, hepatic fibrosis, 1033
Acidosis
effects of, on surface skeletal muscle hydrogen ion activity, 533
Amino acids
leucine aminopeptidase, heat-labile kidney, postoperative loss of, 806
Anesthesia
status and postoperative hospital stay, 46
Aneurysms
popliteal, exclusion and saphenous vein bypass of, 829
Aorta
abdominal, bleeding, effect of external counterpressure on, 252
Arteries
femoral, obturator bypass technique, 1307
mesenteric occlusion, acid-base disturbances in, 15
roentgenography, role in management of multiple injuries, 761
routine operative following vascular reconstruction, 745
stenosis, experimental, effect of stricture length on, 729
surgery, experimental, effect of stricture length on arterial stenosis, 729
vascular reconstruction, routine operative arteriography, 745
Arthritis
rheumatoid, salvage of severely involved knee, 788

BACTEREMIA
shock, differences in mechanism, 37
Bile ducts
strictures, repair of, 1070
Biliary tract
adrenergic receptors in canine, 823
roentgenography, operative, 279
operative, simple method, 603
significance of air in, 49
Bladder
surgery, experimental, reaction to catgut and reconstituted collagen sutures, 1221
Blood
circulation, cross, in hepatic coma, 495
coagulation, in surgical procedures, 523
disease, hemophilia, surgical management of, 793
hemodynamics, abnormalities secondary to extracellular fluid depletion in intestinal obstruction, 1274
experimental, effects of viable gram-negative organisms, 753
study of occlusion of inferior vena cava, 801
lymphocytes, circulation, depletion in preparation for renal allotransplantation, 777
and surgery, 1294
plasma, experimental study of safer substitutes for, 1235
supply, of colon, use of vital dyes in evaluation of, 97
transfusion, preoperative whole versus packed red cells for, 1047
volume, postresuscitative in combat casualties, 1193
Blood pressure
high, angiographic investigation of complicating human renal transplantation, 963
Blood vessels
cephalic, as peripheral vascular graft, 551
iliofemoral, thrombosis in antepartum state, 546
thrombi, management of iliofemoral in antepartum state, 546
Bone
graft, inner table iliac, 605
Book Shelf
Shakespeare and orthopedics, 358
Surgery in Saigon, 834
Brain
intracranial pressure, increased, changes in pulmonary, somatic, and splanchnic perfusion, 8
surgery, experimental, in regulation of gastric secretion, 1007
Breast
abscess, surgery, for chronic recurrent periareolar abscess, 597
carcinoma, and delay, 1027
effects of chemotherapeutic agents on, in tissue culture, 1001
inoperable or recurrent, castration for, 1226
Paget's disease, 1253
thermography in, 1289
uptake of tritiated steroids, 975
surgery, lymphangiosarcoma following irradiation, 489
Burns
infections, pseudomonas, control of, by silver sulfadiazine, 1021
treatment, in children, 518

CANCER
breast, carcinoma, and delay, 1027
carcinoma, effects of chemotherapeutic agents in tissue culture, 1001
Paget's disease, 1253
recurrent or inoperable castration for, 1226
thermography in, 1289
uptake of tritiated steroids, 975
camouflage, 735
corpus uteri, carcinoma, prognosis, indications of, 1247
metastasis, effect of experimental lymphatic obstruction on, 1042
ovary, carcinoma, treatment of, 295
treatment, carcinoma, of ovary, 295
castration for primary inoperable or recurrent breast carcinoma, 1226
uterus cervix, carcinoma, conization in pregnancy, 1244
Chemotherapy
fluorouracil, effects on breast carcinomas in tissue culture, 1001
methotrexate, effects on breast carcinomas in tissue culture, 1001
thiotepa, effects on breast carcinomas in tissue culture, 1001
Cholangiography
See Biliary tract, roentgenography
Collective Review
Acceleration of healing, 1321
Achalasia and carcinoma of esophagus, 1081
Primary melanomas in unusual sites, 841
Relation between serum calcium and tumor metastases, 369
Surgical treatment of amebiasis, 609
Treatment of electrical burns, 129
Colon
blood supply, vital dyes in evaluation of, 97
diverticula, inflammation of, 1209
megacolon, toxic, 21
sigmoid, idiopathic perforation of, 991
Coma
hepatic, cross circulation of patients in, 495
experimental, survival and metabolism in, 557
Cysts
breast, needle aspiration of, 351

DIALYSIS
lymph, immunity in patients, 1
Duodenum
fistula, lateral, emergency management by pancreaticoduodenectomy, 108
ulcers, choice of operation for, 77

EDITORIAL
Broad concept of sterile technique, 115
Cancer prediction, 1305
Common mechanisms of hypotension in irreversible shock and liver transplantation, 601
Congenital hypertrophied pyloric stenosis, 828
Dilemma in medical education, 1067
Estrogens and cancer of prostate, 117
Generous exploratory gastrotomy in control of gastroduodenal hemorrhage, 600
Neurosurgical legacy of Harvey Cushing, 1066
Open cardiac massage, 827
Surgical management of pump failure of heart, 1304
Very unpopular science, 350
When is pull-through operation justifiable?, 348
Why not whole truth?, 1065
Embolism
fat, experimental, after compression-decompression in hyperbaric chamber, 103
pulmonary, major, management of, 27
Esophagus
complications, of vagotomy, 481

FOOT
lesions, management of diabetic patients with, 85

GALLBLADDER
excision, hepatic plexus vagectomy as adjunct to, 241

HAND
extensor tendon injuries, management of, 1269
Heart
atrium, left gigantic, surgical treatment of, 565
disease, acquired, gigantic left atrium, surgical treatment of, 565
muscle, mammalian, effects of cryoprotectant compounds on, 571
Hospitals
postoperative stay, abnormal peak flow rate compared with anesthetic status, 46
records, computer-oriented documentation of surgical patients, 539

IMMUNITY
in lymph-dialyzed patient, 1
transplant, by local graft irradiation, 584
Infection
surgical, deep mycoses, diagnosis of, 259
Instruments and apparatus
computer-oriented documentation of surgical patients, 539
G suit, effect of external counterpressure and aortic bleeding, 252
hyperbaric chamber, experimental fat embolism following compression-decompression in, 103
ultrasonic holographic system, for detection of tumors in soft tissues, 953
Intestines
anastomosis, experimental, everted, 1297
colon, diverticulitis of, 1209
disease, masquerading as gynecologic problems, 1016
factor, effect on mortality of experimental pancreatitis, 340
obstruction, extracellular fluid depletion in, 1274
Isotopes
I^{125}, plasma volume and sulfate spaces in acute combat casualties, 719
S^{35}, plasma volume and sulfate spaces in acute combat casualties, 719
tritium, uptake of steroids by breast carcinoma, 975

JOINTS
knee, rheumatoid arthritis, salvage of, 788
surgery, of knee severely involved by rheumatoid arthritis, 788

KIDNEY
surgery, experimental, reaction to catgut and reconstituted collagen sutures, 1221
transplantation, circulating lymphocyte depletion in preparation for, 777
experimental, effect of semicarbazide and pyridoxine deficiency on survival of, 81
human, angiographic investigation of complicating hypertension, 963
light, fluorescence, and electron microscopic study of, 62
mechanism of immunity by local graft irradiation, 584

LIVER
coma, experimental, survival and metabolism in, 557
treatment by cross circulation, 495
disease, congenital fibrosis, 1033
function, postoperative determinations of serum xanthine oxidase, and glutamic oxalacetic and pyruvic transaminase in, 985
significance of air in, 49
surgery, experimental, plexus vagectomy as adjunct to cholecystectomy, 241
transplantation, orthotopic, human, 327
Lungs
abnormal peak flow rate, compared with anesthetic status and postoperative hospital stay, 46
atelectasis, experimental, dead space rebreathing in treatment of, 1283
blood supply, management of major embolism, 27
fat embolism, experimental, after compression-decompression in hyperbaric chamber, 103
function, effect of dead space rebreathing in treatment of atelectasis, 1283
surgery, experimental, effect of allotransplantation of, on pulmonary surfactant, 1264
transplantation, experimental, effect of, on pulmonary surfactant, 1264
Lymph nodes
para-aortic, two-dimensiona echo detection of, 772

METABOLISM
in experimental endogenous hepatic coma, 557
zinc, alterations of, following surgical operations, 88
Muscles
heart, mammalian, effects of cryoprotectant compounds on, 571
surface skeletal hydrogen ion activity, effects of acidosis and alkalosis on, 533

NERVES
cranial, vagotomy, esophageal complications of, 481
femoral, combat-sustained injuries of, 813
injuries, femoral, combat-sustained, 813

OVARY
carcinoma, of, 295
Oxygen
effect of, on basal acid secretion from innervated gastric pouches in dogs, 322

PANCREAS
inflammation, experimental, effect of intestinal factor on mortality of, 340
Pelvis
surgery, intestinal disorders masquerading as gynecologic problems, 1016
Peritoneum
retroperitoneal space, abscess of, 1202
Prostate
resection, comparison of operative approach for, 969

RADIATION
local graft, transplant immunity by, 584
therapy, of lymphangiosarcoma following, 489
Rectum
perforation, idiopathic of, 991

surgery, modified procedure for Hirschsprung's disease, 831
Roentgen rays
contrast media, operative cholecystocholangiography, 279
diagnosis, of air in biliary system and liver, 49

SHOCK
bacterial, differences in mechanism of, 37
septic, defective oxygen consumption in, 1051
Spleen
excision, for occult rupture of, 1215
occult rupture of, 1215
Stomach
pylorus, hypertrophic stenosis, 355
secretion, experimental, anterior hypothalamic regulation of, 1007
experimental, from innervated pouches, 322
surgery, vagotomy and drainage in treatment of gastric ulcer, 91
ulcers, vagotomy and drainage in treatment of, 91
Surgery
blood, hydroxyethyl starch solution in extensive operations, 725
lymphocytes and, 1294
postresuscitative volumes in combat casualties, 1193
cardiac, treatment of gigantic left atrium, 565
end-results, for prostatectomy, 969
experimental, acid-base disturbances in mesenteric occlusion, 15
adrenergic receptors in biliary tract, 823
anterior hypothalamic regulation of gastric secretion, 1007
aortic bleeding and effect of external counterpressure, 252
changes in pulmonary, somatic, and splanchnic perfusion with increased intracranial pressure, 8
cross circulation of patients in hepatic coma with baboon partners having human blood, 495
effects of acidosis and alkalosis on surface skeletal hydrogen ion activity, 533
of allotransplantation of lung on pulmonary surfactant, 1264
of dead space rebreathing in treatment of atelectasis, 1283
of hypoxia and hypercapnia on basal acid secretion from innervated gastric pouches, 322
of lymphatic obstruction on growth and metastasis of tumors, 1042
of stricture length on critical arterial stenosis, 729
endogenous hepatic coma, survival and metabolism in, 557
everted intestinal anastomosis, 1297
heart muscle, effects of cryoprotectant compounds on, 571
hemodynamic effects of viable gram-negative organisms, 753
of occlusion of inferior vena cava, 801
hepatic plexus vagectomy as adjunct to cholecystectomy, 241
influence of distant trauma on local wound infection, 713
pancreatitis, effect of intestinal factor on mortality of, 340
reaction of kidney and bladder tissue to catgut and reconstituted collagen sutures, 1221
study of safer plasma substitutes, 1235
transplant immunity by local graft irradiation, 584
vital dyes in evaluation of blood supply of colon, 97
infection, deep mycoses, diagnosis of, 259
morbidity and mortality, from burns in children, 518
of experimental pancreatitis, 340
postoperative care, blood volumes in combat casualties, 1193
postoperative complication, abnormal peak flow rate, compared with anesthetic status and postoperative hospital stay, 46
alterations in zinc metabolism following, 88
esophageal, of vagotomy, 481
venous thrombosis of legs, relationship of fibrinogen to, 818
postoperative determinations, of serum xanthine oxidase and glutamic, oxalacetic, and pyruvic transaminase, 985
postoperative reaction, loss of heat-labile kidney leucine aminopeptidase, 806
technique, abdominoperineal resection, 118
choice for duodenal ulcers, 77
cholangiography, simple method, 603
cholecystocholangiography, 279
for chronic recurrent periareolar abscess, 597
comparison of approach for prostatectomy, 969
everted intestinal anastomosis, 1297
exclusion and saphenous vein bypass of popliteal aneurysms, 829
hemostasis, 523
of iliac bone graft, 605
modified for Hirschsprung's disease, 831
needle aspiration of breast cysts, 351
obturator bypass, 1307
operative arteriography following vascular reconstruction, 745
pancreaticoduodenectomy as emergency management of lateral duodenal fistula, 108
percutaneous catheterization of subclavian vein, 1069
Ramstedt procedure in hypertrophic pyloric stenosis, 355
repair of stricture of bile duct, 1070
transfusion, preoperative, whole blood versus packed red cells, 1047
varicose veins, postoperative recurrence, 275

TENDON
extensor of hand, injuries of, 1269
Thrombosis
venous, of legs, relationship of fibrinogen to postoperative, 818
Transplants
bone, inner table iliac, 605
immunity, by local graft irradiation, 584
kidney, circulating lymphocyte depletion in preparation for, 777
experimental, effect of semicarbazide and pyridoxine deficiency on survival of, 81
human, light, fluorescence, and electron microscopic study of, 62
hypertension complicating, 963
liver, human, orthotopic, 327
lung, experimental, effect on pulmonary surfactant, 1264
vascular, peripheral, cephalic vein as, 551
Trauma
accidental, multiple, angiography in management of, 761
penetrating ureteral, 591
distant, influence on experimental wound infection, 713
foot, management in diabetic patients, 85
hand, extensor tendon injuries, management of, 1269
Tumors
lymphangiosarcoma, following mastectomy and irradiation, 489
malignant, effect of experimental lymphatic obstruction on growth and metastasis of, 1042
in soft tissues, detection by ultrasonic holography, 953

URETERS
injuries, penetrating, 591
Uterus
cervix, carcinoma, conization in pregnancy, 1244

excision, conization in pregnancy, 1244
corpus, carcinoma, prognosis in, 1247
pregnancy, cervical conization in, 1244
complications, iliofemoral venous thrombosis in antepartum state, 546
Ultrasonics
two-dimensional pulsed echo detection of para-aortic lymph nodes, 772

VAGINA
cells, cancer diagnosis, 735
Veins
saphenous, exclusion and bypass, of popliteal aneurysms, 829
subclavian, catheterization, percutaneous technique of, 1069
thrombi, postoperative of legs, relationship of fibrinogen to, 818
varicose, surgery, major recurrence after, 275
Venae cavae
inferior, occlusion, experimental study of hemodynamics, 801

WHAT'S NEW IN SURGERY
Gastrointestinal biliary conditions, 301
Gynecology and obstetrics, 304
Neurologic surgery, 308
Orthopedic surgery, 309
Otorhinolaryngology, 311
Plastic surgery and burns, 312
Shock and metabolism, 315
Tumors, 319
Wounds
abdominal, penetrating ureteral, 591
experimental, healing in man, 283
healing, experimental, effect of alpha dipyridyl, 1061
experimental, in man, 283
infection, experimental local, influence of distant trauma, 713
treatment, in diabetic patients, 85
war, femoral nerve injuries, 813
plasma volume and sulfate spaces in acute, 719
postresuscitative blood volumes in, 1193

INDEX TO BOOK REVIEWS

ANDERSON, WILLIAM. Boyd's Pathology for Surgeon, 8th ed., 839

ANDREWS, J. ROBERT. Radiobiology of Human Cancer Radiotherapy, 1079

ANSON, BARRY J., and DONALDSON, JAMES A. Surgical Anatomy of Temporal Bone and Ear, 838

BUSCH, HARRIS. Methods in Cancer Research, edited by Harris Busch, Vol. III, 126

CHRISTOPHER'S TEXTBOOK OF SURGERY, edited by Loyal Davis, 9th ed., 126

DAVIDOFF, LEO M., JACOBSON, HAROLD G., and ZIMMERMAN, HARRY M. Neuroradiology Workshop; Nonneoplastic Intracranial Lesions, Vol. III, 840

DENNISON, WALLACE M. Surgery in Infancy and Childhood; a Handbook for Medical Students, Junior Hospital Staff, and General Practitioners, 2nd ed., 607

ECKERT, CHARLES. Emergency Room Care, by 24 Authors, edited by Charles Eckert, 127

GARLOCK, JOHN H. Garlock's Surgery of Alimentary Tract, foreword by Elliot Hurwitt, Samuel H. Klein, and John L. Madden, 367

GENTIL, F., and JUNQUEIRA, A. C. Ovarian Cancer, edited by F. Gentil and A. C. Junqueira, UICC Monograph Series, Vol. XI, 608

GOLD, JAY J. Textbook of Gynecologic Endocrinology, by 36 Authors, edited by Jay J. Gold, foreword by J. P. Greenhill, 1078

GOLIGHER, J. C. Surgery of Anus, Rectum, and Colon, with the collaboration of H. L. Duthie and H. H. Nixon, 2nd ed., 1319

KÄSER, OTTO, and IKLÉ, FRANZ A. Gynecologic Operations; Indications, Technic, and Results, English language edition by Albert Davis and Renate Marie Davis, 839

LAWRENCE, JOHN H. Progress in Atomic Medicine; Nuclear Medicine and Recent Advances, edited by John H. Lawrence, Vol. II, 1078

LONDON, P. S. Practical Guide to Care of Injured, foreword by H. Osmond-Clarke and William Gissane, 1077

MIESCHER, PETER A., and GRABAR, PIERRE. Immunopathology, Vth International Symposium; Mechanisms of Inflammation Induced by Immune Reactions, Held at Punta Ala (Italy), June 1967, edited by Peter A. Miescher and Pierre Grabar, 1078

MIKAL, STANLEY. Homeostasis in Man; Fluids, Electrolytes, Proteins, Vitamins, and Minerals in Clinical Care, illustrated by Jerome Glickman, Julian Alexander, Elaine Gampp, and Stanley Mikal, 127

MITCHELL, G. A. G., and PATTERSON, E. L. Basic Anatomy, 2nd ed., 367

OLIVER, JEAN. Nephrons and Kidneys; Quantitative Study of Developmental and Evolutionary Mammalian Renal Architectonics, 1079

PATEL, JEAN, and LEGER, LUCIEN. Nouveau traité de technique chirurgicale; paroi abdominale sutures digestives laparotomies, Vol. IX, by Philippe Détrie, published under the direction of Jean Patel and Lucien Leger, 838

PATEL, JEAN, and LEGER, LUCIEN. Nouveau traité de technique chirurgicale; système porte-rate, Vol. XIII, 838

POWERS, JOHN H. Surgery of Aged and Debilitated Patient, edited by John H. Powers, 1317

RANKOW, ROBIN M. Atlas of Surgery of Face, Mouth, and Neck, 1318

RAPAPORT, FELIX T., and DAUSSET, JEAN. Human Transplantation, edited by Felix T. Rapaport and Jean Dausset, 838

RÖSCH, JOSEF. Roentgenology of Spleen and Pancreas, 367

RÜTTIMANN, A. Progress in Lymphology; Proceedings of International Symposium on Lymphology, Zurich, Switzerland, July 19-23, 1966, edited by A. Rüttimann, 127

SHERLOCK, SHEILA. Diseases of Liver and Biliary System, 4th ed., 1318

TRUETA, JOSEPH. Studies of Development and Decay of Human Frame, 1319

WITT, HELMUT, and BÜRGER, HERTA. Mamma-Diagnostik im Roentgenbild; ein Atlas fuer die Praxis mit histologischen Schnitten, 1077

ABSTRACTS SUBJECT INDEX TO VOLUME 128

ABDOMEN
acute, 1129
anterior wall, closure, 875
tumors, 1357
celiac disease, 174
laparotomy, 219
paracentesis, diagnostic, 217, 1129
peritoneum, lavage and filtration, 1366
roentgenography, 696, 878, 1357
trauma, appraisal, 219, 878, 1129 1357
blunt, 178, 876, 1401
visceral arteriography, 1402
in children, 178, 684
penetrating, 877
tuberculosis, 665
tumors, 419
Abnormalities and deformities
clasped thumb, 913
cleft lip and palate, 643
double appendix, 423
in extremities, experimental, 192
foot, after myelomeningocele, 1388
great vessel malformations with hydramnios, 1153
pulmonary venous connection, 657
urachal, 1357
ureterovaginal, labor with, 194
venae cavae, 1392
Adrenal glands
function, with pituitary tumors, 648
hyperplasia, congenital, 202
and precocious puberty, 912
pheochromocytoma, 678
histamine and glucagon tests, 912
and kindred tumors, 951
steroids, postoperative use, 469
Anesthesia
accidents during, 934
and aortic aneurysms, 689
and atelectasis, 933
cyclopropane-epinephrine and heart rhythm, 934
and electron microscopy, 689
halothane, effect on fetus and neonate, 449
intraocular pressure change, 638
lidocaine, during labor, 1175
methoxyflurane, in obstetrics, 223
microtubules and, 1175
mixed gases in, 934
and nerve conduction, 223
neuroleptanalgesia, 1398
paracervical block, and fetal heart action, 689
and labor, 194, 1398
placental transfer, 223
during portacaval shunt procedures, 224
prilocaine hydrochloride, in obstetrics, 1175
propanidid, 201
and pseudocholinesterase, 690
regional intravenous, 223
Antibiotics
cephalosporins, 687
clinimycin, 222
gentamicin, for burns, 930
in operations, biliary tract, 887
colonic, 176
penicillin, 206, 687
for osteomyelitis, 206
in pregnancy, 437
resistance of Staphylococcus aureus, 1174
streptozotocin, 704
tetracycline, and nystatin, 1174
effect on fetal growth and teeth, 916
topical sprays, 685
in wound infection, 221
Aorta
abdominal, aneurysm, 211, 464, 926
aneurysms, mesh wrapping for, 211
occlusion, 461, 1165
aneurysms, anesthetic management, 689
atheromatous changes, 1125
atherosclerosis, with cigarettes and alcohol, 1192
coarctation in infancy, 1355
dilatation, aneurysmal, 164
dissection, 1125
hypoplasia as cause of death, 1168
medionecrosis, 1125
resection, mortality rate after, 211
rupture, traumatic, 923
stenosis, supravalvular, 657
thoracic, aneurysm, 1353
rupture, 923
Appendix
double, 423
inflammation, 177, 180, 473
and jaundice, 1360
tumors, 666

BILIARY TRACT
cholangiography, 693, 1136, 1178
with television fluoroscopy, 1136
choledochal cysts, carcinoma in, 182
cholestasis, intrahepatic, 449
cirrhosis, immunologic aspects, 183
ducts, carcinoma, 182
hypoplasia, 180
pressure recording of, 184
roentgenography, 227
stenosis, 1135
excision of gallbladder, 1364
flow, electrophysiologic study, 699
hemobilia, posttraumatic, 1135
jaundice, appendicitis and, 1360
motor activity after vagotomy, 888
operations, 887, 888, 1137
balloon-tipped catheter in, 1137
tumors, and ulcerative colitis, 1137
Bladder
aspiration, in urinary tract infection, 1382
bipolar recordings in dogs, 910
cancer, carcinoma, 676, 677, 678, 1159
carcinoma, cytologic evaluation, 678
fluorouracil for, 1159
radiation and surgical therapy, 201
histologic classification, 911
detrusor muscle innervation, 1159
dysfunction, with lumbar disc prolapse, 459
neurogenic, ureterostomy for, 1160
with ergot dehydrocompound, 201
incontinence, female, electrical implant for, 201
myosarcoma, 454
reflux in pregnancy, 1146
trigone, 677
Blood
anemia, after renal transplantation, 710
sickle cell, 1137
arterial carbon dioxide, measurement by rebreathing, 1345
bacteremia, gram-negative, 218
host resistance, 932
streptococcal, 687
bubble formation after radiotherapy, 699
calcium, and dialysis, 675
capillary, blood gases and pH, 1395
cells, changes with chemotherapy, 945
circulation, after arterial reconstruction, 415
cross, in hepatic coma, 428, 691
man-baboon, 691
elective arrest in neurosurgery, 688
fat embolism therapy, 212
implanted support system, 872
prolonged extracorporeal, lung function with. 161
rheostasis, 701
coagulation, anovulatory agents and, 436

after fetal death, 668
intravascular, 217
in pregnancy, 445, 1141
disorders, congenital, 683
electrophoresis, and transplants, 950
fibrinolysis, anovulatory agents and, 436
gases, in chest trauma, 685
and smoking, 1370
glucose, fetal, 448
hemochromatosis, pituitary gland in, 1112
hemodialysis, arteriovenous fistulas with, 1165
arteriovenous shunts for, 467
gynecomastia after, 235
hemodynamics, with angiography, 473
in arterial obliteration, 465
in artery implants, 1127
hemophilia, 711, 1131
hemostasis, with gold foil, 692
Librium® and, 1394
hypercholesterolemia, ileal bypass for, 712
kernicterus, 1406
leukemia, acute, 703
cells in, 1409
feline, virus particles, 705
postradiation, 229, 1181
remission after daunomycin and prednisone, 1189
vincristine for, 216
leukoagglutinin assays, 479
lymphocyte change, 952
magnesium depletion, 1406
mepivacaine concentration, in mother and fetus, 1398
plasma, contraceptives and phospholipids, 188
diamine oxidase during pregnancy, 438, 904
estriol and estradiol levels, 1366
plasmocytoma, 951
progesterone level, 436, 446
protein replacement, 217
renin activity, 674
substitutes, 470, 686, 1380
volume measurement, 218
volume after phenoxybenzamine-induced vasodilation, 234
platelets, in thrombosis, 235, 1393
potassium, with anesthesia, 934
red cells, acid-citrate-dextrose storage, 469
frozen, 469, 1394
survival measurement, 475
volume, 218
serum, alkaline phosphatase, 1363
prenatal, maternal antigens, 196
transfusion, exchange, 1373, 1400
intrauterine, 440
professional donors, 470
reaction to anti-IgA antibody, 470, 1394
uremia, obstructive, 1377
viscosity during shock, 220
volume, during embolization for carotid artery fistula, 151
after heart transplantation, 1412
in malignant disease, 1172
measurement in venous bypass graft, 463
replacement, 217
Blood pressure
high, in children and adolescents, 1405
experimental, in renal transplantation, 1190
kidney scan in, 230
oral contraceptives and, 436
renovascular, 214, 1178, 1379
excretory urography, 1178
implant for, 1379
and plasma renin activity, 674
Blood vessels
anastomosis, portacaval, 464, 1109
angiogenesis, in tumor, 477
aneurysms, basilar artery, 396
carotid-choroidal, 151
carotid-ophthalmic, 151
cerebral, 152, 396, 1112
splenic, 465
arteries, arteriosclerosis, amputation, 1166
atheromas, 211
carotid, fistulas, 151
intraoperative protection, 862
occlusion, 211, 213
operations, 862, 925, 927
thrombosis, 464
catheterization in infants, 906
celiac, compression, 464, 467
cerebral, aneurysms, 1112
extracranial branches, 694
malformations, 1111
coronary, 871, 1123, 1353
roentgenography, 938
embolism, 925, 1392
excision, 1392
endarterectomy, 1165
in extremities, inflammation, 927
obliterative disease, 465, 690
occlusion, 213, 467
femoral, 1391
gastric, 422
gastrointestinal, stenosis of, 875
gluteal, aneurysms, 1167
hepatic, ligation for hemobilia, 1135
heterografts, 213
hypertension, 907, 1178
iliac, ligation, 432
trauma, 925, 1391
implants, 1126, 1127
inferior mesenteric, 462
operations, emergency, venous grafts for, 926
Fogarty catheter in, 466
oxygen tension, preoperative, 688
partial severance, 212
popliteal, war wounds, 1166
profunda femoris, 463
prosthesis, 468, 944
pulmonary, banding, 415
pressure after lung reimplantation, 1187
reconstruction, 415
renal, 673, 1178
fibromuscular dysplasia, 682
occlusion, 927
roentgenography during autopsy, 681
splenic, 465, 1123
subclavian, aberrant, right, 1352
tentorial, 696
thrombectomy, 924
thromboendarterectomy, for ischemia, 924
trauma, 1169
venous fistula, 927
vertebral, 646, 926
Buerger's disease, 213, 466, 1131
capillaries, in cancer, 1189
cerebral, spasm, 394, 395, 1113
compression, thoracic outlet, 925
constriction, during halothane anesthesia, 223
dilatation, phenoxybenzamine-induced, 234
disease, cerebrospinal, 710
peripheral, serial aortography, 226
in first rib anomalies, 681
fistulas, arteriovenous, 1165
carotid-cavernous, 151
great vessels, congenital defects, 872, 1352
traumatic lesions, 465
implantation into kidney cortex, 1379
intracranial, posterior fossa, malformation, 863
ischemia, 464, 1396
malformations, observed in children, 648
occlusion, and lung diffusion capacity, 697
retinal, and hereditary visual cell degeneration, 1335
with retroperitoneal tumors, 419
revascularization, in lower extremities, 1168
roentgenography, in celiac trunk compression, 464
in cerebrovascular insufficiency, 462
complications in infants and children, 165
hemodynamics in, 473
in pancreatic cancer, 888
shunts, arteriovenous, 467
portosystemic, 461
in squamous epithelium, premalignant and preinvasive, 443
thrombosis, 924, 927
recanalization after, 462
trauma, 212, 924, 1169
vasa vasorum, cardiac, 165
veins, azygos, 1348
catheterization, septicemia with, 933
cavernous sinus, 1177
cerebral malformations, 1111
dorsal pedal, 1391
grafts, 214, 465, 926
iliofemoral, 465, 927
inflammation, extremities after, 215

orbital, roentgenography of venous plexus, 935
popliteal, roentgenography, 1178
portacaval shunts, 224, 463
pulmonary, anomalous connection, 657
hemodynamics, 1126
renal, 214
saphenofemoral, 1166
subclavian, 682
thromboembolism, heparin in, 212
thrombophlebitis, 1372
thrombosis, 214, 927, 1169, 1391, 1393
umbilical, in abdominal operations, 1136
varices, hemorrhage, 1168
in pregnancy, 681
varicocele and resultant infertility, 198
varicose ulcers, 926, 1391, 1392

Bone
aneurysmal cysts, 204, 916
calcaneus, 458
calcium, neutron activation, 696
carcinoma, metastatic, 696
changes with Gardner's syndrome, 207
clavicle, 207, 455
epicondylitis, 456
epiphysis, 474, 679
facial fractures, 143, 638
femur, head, necrosis, 456
neck, 456, 915, 1387, 1388
graft, in cleft palate, 159
iliac inlay-on-edge, 1385
skin, 1384
healing, experimental study, 915
mandible, repair, 636
marrow, 1384, 1409
osteomyelitis, antibiotics and, 206, 207
bacterial infection, 457
osteoperiosteal decortication, 1383
osteotomy, limb lengthening with, 204
ovarian cancer, formation in, 1141
prosthesis, fixation with methyl methacrylate, 1387
scapula, chondrosarcoma, 159
sternum, anatomy, 874
tibia, fractures, 456, 679, 1161, 1163
pseudarthrosis, 203, 207, 679
tumors, Ewing's sarcoma, 1386
giant cell, 1403
malignant skeletal, 208
osteosarcoma, 1385

Brain
abscess, 1340
aneurysms, encasement, 863
intracranial, 152
posterior communicating, 396, 863
cavernous sinus, cavernoma, 394
circulatory arrest, elective intraoperative, 1340
cyst, scintiscan diagnosis, 231
electroencephalograms, 863
encephalitis, and cancer, 703
encephalopathy, after portacaval anastomosis, 1109
hydrocephalus, evaluation, 153
experimental, 864
ventriculoatrial shunts, 153, 1110
intracranial mass, distortion and ischemia from, 154
irradiation for metastasis, 1183
mononeuropathy indicating metastases, 1112
operation, elective circulatory arrest in, 688
organic dysfunction, and psychiatric disorder, 396
pontocerebellar cisternography, 225
posterior fossa, 863, 938
revascularization, blood-brain barrier in, 152
scintiscan, with positron-emitting isotopes, 1404
subarachnoid space, blood absorption from, 864
tomography, 473
trauma, 154, 1339
tumors, computer-assisted diagnosis, 1113
germinomas, 394
glioma, 394
gliomablastoma, 1114
hematoma, extradural, 151, 153, 154, 1340
subdural, 152, 397
medulloblastoma, 1111
oligodendroglioma, 1110
posterior fossa, 1110
vascular malformations and, 935
ultrasonography, 397
vascular malformations, 863, 935
ventriculostomy, 398

Breast
augmentation, 866, 1118, 1344
biopsy, aspiration, 403
cancer, adrenal gland and ovary perfusion, 866
bilateral adrenalectomy and oophorectomy, 1343
carcinoma, cytotoxic and roentgen ray treatment, 160
ulcerative, 237
chemotherapy, 403, 1408
diagnosis, venous diameter ratio in, 228
excision for, 404
irradiation of peripheral lymph nodes, 159
lymph node excision, 1118
male, 160
management, 1118, 1344
screening, 403
thermography, 1344
urinary 17-ketosteroid excretion in, 401
disease, in adolescent female, 402
excision, 402, 404
gynecomastia, after hemodialysis, 235
implantation, complications of, 1118
imprints, and tissue section, 1344
lactation, and ovulation, 446
roentgenography, 401
tumor, estrogen therapy with, 402
papilloma, intraductal, 402
in the rat, 1407
in rudiment, 159
sarcoma and mesenchymal, 160

Bronchi
biliary fistula, congenital, 409
carcinoma, cerebral metastasis, 475
lung perfusion patterns, 941
operative therapy, 899, 1347
roentgenography, 694, 695
foreign bodies, surgical removal of, 162
inflammation, chronic, 654
roentgenography, with tantalum, 694
transcricoid thyroid membrane, 1401
stump closure, 163
tumor, 655, 1347

Burns
caustics in the stomach, 424
in children, 684
in Denmark, 219
disaster management, 1173
esophageal, 425
extensive, 1172
gasoline, 932, 1117
gastrointestinal complications, 930
glucose tolerance, 931
healing, 684
joint function with, 455
magnesium levels, 931
partial excision after, 470
serum isozymes in, 219
treatment, allografts and $AgNo_3$, 931
with gentamicin, 930
skeletal suspension in, 1173
topical, 931
wound sepsis, silver nitrate for, 1173

Cancer
anus, carcinoma, 666, 879
bile ducts, carcinoma, 182
bladder, carcinoma, 201, 677, 678, 1159
classification, 911
blood volume in, 1172
brain, and encephalitis, 703
breast, adrenal gland and ovary perfusion, 866
altered fractionation radiotherapy, 230
after atomic bomb exposure, 404
carcinoma, ulcerative, 237
chemotherapy for, 237, 403, 1408
cytotoxic and roentgen ray treatment, 160
electron microscopy, 160
hypophysectomy for, 1111
lymph node ablation, 1118
in the male, 160
management, 1118, 1344
mastectomy, 404
radiographic diagnosis, 228
screening, 403
thermography, 1344

bronchus, carcinoma, 695, 869
lung perfusion pattern, 941
operation, determined by lung function, 1347
carcinogens, chemical, 704
carcinoma, basal cell, 1343
germinal, 1376
renal cell, 236
sebaceous cell, 157
cells, cystadenoma tissue culture, 896
movement inhibition with sodium warfarin, 945
pigment-producing, 703
sputum study, 1119
cervix, carcinoma, 186, 431, 894
carcinoma, clear cell, 431
epidermoid, 237
invasive, 432
in pregnancy, 188, 194
prognosis, 187
radiotherapy, 474, 1403
recurrent, 1140
squamous cell, 1142
stump, 1140
cytostatic drug therapy, 667
diagnosis, 430
and pregnancy, 188, 194, 434
radiotherapy, conventional and supervoltage, 228
colon, carcinoma, 665, 1408
recurrence prevention, 424
transverse, 177
diagnosis of premalignant lesions, 185
ear and face, chemotherapy, 477
endometrium, 1139
esophagus, adenocarcinoma, 417, 662
carcinoma, 416, 475
plastic tube prosthesis, 417
cycloradiotherapy, 229
radiation-induced, 946
ethmomaxillary sinus, 641
female genital tract, bony tissue formation in, 1141
follow-up, 1139, 1361
intralymphatic isotopic therapy, 942
and gene distribution, 702
head and neck, 401, 636, 1403
immunologic factors, 237
kidney, carcinoma, 453
resectability, 454
larynx, carcinoma, 389, 391
carcinoma, radiologic diagnosis, 642
prognosis, 390
lip, reconstruction after, 643
long bones, fracture with, 205
lungs, adenocarcinoma, 1121
brush biopsy, 654
carcinoma, 868, 1122, 1345, 1346, 1348
classification, 1121
lobectomy for, 406
oat cell, 655
lymphocyte cultures, 868
metastatic, 1347
neuroendocrine disease in, 1348
roentgenography, 695
steroid abnormalities, 868
survival, 162, 409, 868
metastasis, regional lymph nodes, 215
mitrochrondrial mutation in, 1188
mouth, 390, 861
nose, carcinoma, epidermoid, 387
oropharyngeal, 420
ovaries, carcinoma, enzyme changes, 1369
cyclophosphamide, 945
pancreas, carcinoma, 889, 1135, 1362
carcinoma, mental symptoms, 425
parotid gland, carcinoma, mucoepidermoid, 147
pharynx, telecobalt therapy, 229
postcricoid, carcinoma, 391
prostate gland, carcinoma, 197, 1155, 1375
rectum, preoperative irradiation, 939
radical operation, 665
sigmoid flexure, radical operation, 665
skin, carcinoma, 651, 1117
Ir^{192} therapy, 1184
solar radiation and, 157
spine, metastasis, and paraplegia, 399
staging, clinical and surgical, 1159
stomach, 882, 878, 1359
thyroid gland, carcinoma, 149, 393, 1338
tongue, 644, 1181, 1337
tonsil, carcinoma, 390
transformation of embryonic cells, 702
urachus, 877
ureters, carcinoma, 1158
urethra, carcinoma, 1159, 1381
uterus, adenocarcinoma, 433
choriocarcinoma and hydatiform mole, 186, 1140
chorionepithelioma, 945
leiomyosarcoma, 432
recurrence after exenteration, 1139
25 year study, 1144
vulva, carcinoma, 897, 1369, 1370
Cerebrum
angiography, 395, 465, 695
Thorotrast®, 473
arteries, aneurysms, 396, 398, 1112
vasospasm, 394, 1113
blood supply, arteriovenous fistulas, 1185
arteriovenous malformation, 1111
insufficiency, 462, 923
occlusion, 461, 465
cingulumotomy, 1109
coma, cerebrospinal fluid acid-base status, 394
echoencephalography, 154, 398
edema, hyperbaric oxygen for, 153
fat embolism therapy, 155
fluid analysis, 1339
insula, 937
stereotaxic thalamectomy, 398
swelling, craniotomy for, 399
tumors, corpus callosum, 397
metastatic, 123, 475
tentorial meningiomas, 1114
ultrasonography, 397
Chemotherapy
allopurinal, intravenous, 236
cyclophosphamide, 945
fluorouracil in the bladder, 1159
idoxuridine, for herpes simplex virus, 1105
for inoperable cancer, 1408
intra-arterial infusion for head and neck cancer, 1403
for malignant melanoma, 1343
medrogestone acetate, 236
methotrexate, 945
7-deaza-adenosine, toxicologic effects, 1407
thiotepa, in malignant effusion, 1407
Cranium
chordoma and chondroma, 398
erosive defects after trauma, 395
fracture, 640, 915
lesions, echoencephalography, 1339
synostosis, 1110

Diaphragm
abscess, subphrenic, 173
anatomy, 874
Drugs
amphotericin B in acute renal failure, 932
anovulatory agents, blood coagulation, 436
clomiphene citrate, 429, 667
daunomycin, 1189, 1408
ethambutol, in genitourinary tuberculosis, 675
glucocorticosteroids, in pulmonary disease, 1346
intoxication, 1192, 1413
isoproterenol, in lung embolism, 409
isoxsuprine, 445
Librium®, and hemostasis, 1394
low molecular weight dextran 683, 1406
monoamine oxidase inhibitors, action of cold remedies, 1413
oxytocin, and fetal water intoxication, 445
prednisone, for leukemia, 1189
propranolol, in cardiovascular operations, 933
teratogenic effect, 191
vincristine for leukemia, 216

Ear
acoustic trauma from noise, 1106
auditory fatigue, after stapes operation, 146
avulsion, hypothermia for, 1175
chondritis in burns, 387
deafness, audiometric readings, 641
caloric reactions, 388
fistulas, 860
labyrinth, 145, 146
Meniere's syndrome, 145
middle, operation, 641
sound transmission, 642

myringoplasty, 388, 860
otitis media, 388
otoplasty, 386, 1106
stapes operation, neuroleptanalgesia, 1398
tumors, acoustic neuromas, 1177
Polytome-Pantopaque® diagnosis, 145
tympanic membrane, grafts for, 1336
tympanoplasty, 145
spontaneous, 1337
ultrasonography, 860
vestibular apparatus research, 387, 388
Endocrine glands
dwarfism, 240
in leprosy, 1155
Enzymes
aminopeptidase, in neoplasms, 668
trypsin, diagnosis of cervical lesions, 186
21-hydroxylase deficiency, 202
urokinase, 469
Esophagus
anastomosis, 464, 663
atresia, 416, 662
burns from chemicals, 425
cancer, adenocarcinoma, 417, 662
carcinoma, epidermoid, 475
plastic tube prosthesis, 417
prognosis after treatment, 416
radiation-induced, 946
diverticulum, pharyngoesophageal, 873
Zenker's, 861
fistula, tracheal, 655, 1355
hernia, hiatus, 1359
inflammation, 416, 663
megaesophagus, 417
perforation, 416, 663, 1355
peristalsis, in alcoholic neuropathy, 178
rupture, 416, 1128
stenosis, 873
tumors, 172
ulcerations, intracranial lesions from, 418
varices, 409, 464, 1391
portacaval anastomosis for, 464
Eye
acuity, and torticollis, 385
amaurosis fugax, 859
anterior chamber, vitreous hemorrhage, laser treatment, 640
Apert's syndrome, 639
blindness, congenital, 859
cataracts, 143, 858, 860
choroid, cryogenic lesion, 1105
melanoma, 144
sclerosis, 1335
color vision, 1106
complications from drugs, 144
cornea, effect of wearing contact lens, 639
graft perservation, 144, 238, 637
inflammation, herpes simplex virus in, 1105
keratoconus, 385
ectropion, 1343
fundus, changes with toxemic pregnancy, 640
glaucoma, pilocarpine for, 386
goniotomy, 144
hypermetropia correction, 638
hyphema, 144, 1106
infection, treponema, 644
iridencleisis, 858
lacrimal glands, 143, 386
lens, 143, 859
ultrasonography, 385, 386
macula, edema, 858
myopia, 637
norethynodrel with mestranol in rabbits, 1335
nystagmus, 1105
oculosphygmography, 144
ophthalmodynamometry in pregnancy, 193
optokinetic asymmetry, 637
orbit, fracture, 638, 640, 858
phlebography, 935
tumors, 385, 638, 639
pressure, intraocular, 638, 1105
plasma cortisol level, 640
retina, cryogenic lesion, 1105
detachment, 144, 638, 640
cryosurgery, 640
in diabetes, 637
disease, with idiocy, 385
electroretinography, 858
embolism, 638
hypertension, 636
inflammation, 639
light scattering, 1335
tears and lens coloboma, 145
telangiectasis, 637
transcleral coagulation, 385
vascular changes, 636, 637, 1335, 1336
socket after enucleation, 859
tumor, neurilemmoma, 386
orbital, 143
uveitis, streptococcal, 1335

Face
mandibulofacial dystosis, 389
profileplasty, 158
trauma, in children, 143
from windshields, 143
Fallopian tubes
abscess, 433
ligation, 433
reconstruction, 1368
Fertility
fallopian tube reconstruction, 1368
sperm antibodies, 1376
varicocele and, 198
Foot
amputation, Syme's, 916
arthrodesis, 456
tarsal tunnel syndrome, 1390
toes, hallux valgus, 913
Fractures
calcaneus, 458
clavicle, 455
femur, internal fixation, 1388
metastatic, 1388
neck, 915, 1387
soft tissue interposition, 1384
trochanteric, 1386
healing, 915, 1383
hip, in institutionalized patients, 918
humerus, soft tissue interposition, 1384
long bones in cancer patients, 205
maxillary-orbital, 858
Monteggia, 455
nonunion, iliac inlay-on-edge graft, 1385
pelvic, 913
skull, 915
tibia, 456, 679, 680
condyle, 1161
and femur, 915
plateau, 1163
and tarsal, 1387

Gallbladder
calculus, 1137, 1138
excision, effect on biliary tract, 1364
inflammation, 892, 1363
perforation, 1136
roentgenography, 428
Gastrointestinal tract
achalasia in children, 1127
anastomosis, stomal obstruction after, 174
bleeding, 426, 1358
cytologic examination, 880
nutrition, parenteral, 234
operations, malabsorption after, 422
perforation, in infants, 885
propulsive motility, 701
Geriatics
incapacitating disease, 700
operations, gynecologic, 185, 187
social rehabilitation, 952
tuberculosis, urogenital, 1159

Hand
card injury, 921
carpal tunnel syndrome, 400
carpometacarpal dislocation, 210
closure of war wounds, 209
contracture, Dupuytren's, 459, 921
rheumatoid, 920
fingers, camptodactylia, 917
flexor tendon injury, 920
muscular control, electromyographic studies, 210
plastic repair, 652, 921
trigger finger, 1164
infections, treatment, 459
malformations, operation for, 919
reconstruction, 919, 920, 921
syndactyly, 680
thumb, clasped, 913
trauma, mutilating, 920, 921, 922
ulnar deviation in rheumatoid arthritis, 210
Heart
angiography, complications in infants, 165
arrest, hypothermia for, 1176
arrhythmias, fetal, 448
atrium, septectomy, and great vessel transposition, 415
thrombosis, diet-induced, 944
cardiopulmonary bypass, and hypothermic perfusion, 691

catheterization, extremity alteration, 466
congenital defects, 872
atrial septal, 170, 411, 414, 1127, 1350, 1354
atrioventricular canal, 1127
tetralogy of Fallot, 1351
transposition of great vessels, 415, 659, 871
ventricular septal, 657, 870, 1123, 1354
disease, angina pectoris, grafts for, 168
coronary, splenic artery implantation for, 1123
ischemic, metabolic and angiographic diagnosis, 165
maternal death from, 190
in neonates, 448
ductus arteriosus, aneurysm, spontaneous, in children, 1352
patent, 656
electrocardiograms, 477, 669
endocardium, cushion defects, 871
fibrosis, 1123
failure, congestive, 166, 171
fetal, in distress, 445
function, with halothane, 933
hemodynamics, in pulmonary embolism, 1392
muscle, infarction, 169, 412, 658, 1393
infarction, oxygen in, 944
ischemia, 700
papillary, 871
revascularization, 167, 168, 873, 1126
acupuncture, 660
with internal mammary artery implant, 164, 1352
trauma from angiocardiography, 935
operation, antiglobulin tests, 1394
aortic valve bypass, 240
atrial septectomy and great vessel transposition, 415
for atrioventricular septal defects, 167, 415, 1354
electroencephalographic change, 658
electrolyte change, 658
hyperbaric oxygen, 690
hypothermia with, 690
infection and mononucleosis, 661
intracardiac, effect on congestive heart failure, 166
metabolic alkalosis after, 658
nonthrombocytopenic purpura, 659
during pregnancy, 1127
total body perfusion in infants, 872
tracheostomy after, 1126
pacemakers, epicardial and endocardial, 660
implantation, 170, 1351
infection, 661
long term, 1125
synchronous, 414
in children, 413
perfusion, during aortic valve operation, 1353
through ascending aorta, 1399
by centrifugal oxygenator, 692
pericardium, cysts, 1350
friction rub, 653
wounds, 658
tachycardia, after pulmonary operations, 405
transplantation, canine, 479, 1412
canine, coronary blood flow, 1412
in humans, 870, 948, 1190, 1191, 1192, 1409, 1410
preservation, 707, 708, 709
trauma, from electrode catheters, 1126
healing, 661
penetrating, 166, 415
valves, aortic, heterografts, 870, 1124, 1353
aortic, homografts, 167, 169, 411, 413, 1354
prosthetic, 165, 169, 412, 662
viable and nonviable grafts, 873
mitral, 871, 1412
heterografts, 870
insufficiency, 1124
operation in children, 870
prosthesis, 170, 656
reconstruction, 661
regurgitation from muscle dysfunction, 168
stenosis, 414, 938
valvotomy, 414, 656
replacement, in emergencies, 1125
leakage, 166
thromboembolism with, 413, 872
rigid, 412
wounds, 1124
vasa vasorum, 165
ventricles, aneurysm, 412
reconstruction, 414
volume, angiocardiographic study, 228
Hernia
diaphragmatic, after trauma, 418
femoral, 1129
hiatal, gastric ulcers in, 420
repair, 875
inguinal, 173, 1129
in Central Africans, 877
Dacron® prosthesis, 420
peritoneal exposure, 875
Hormones
estrogen, and glucose tolerance, 1147
lactation inhibition, thromboembolism with, 905
gonadotropin, menopausal, 893
and hirsutism, 1145
insulin regulation by secretin, 423

Immunity
antigens in transplants, 950
antilymphocyte serum, in transplantation, 239, 479, 707
blood group sensitization, prenatal serodiagnosis, 196
in cancer patients, 237, 702
immunologic response in wound healing, 931
immunosuppressives, 240, 949
methotrexate and antilymphocyte serum for lung allografts, 239
nonerythrocytic antibodies, 448
Rh-immunization by pregnancy, 898
Rh_0 immunoglobulin for, 190
Rh-negative, amniocentesis, 191
Rh and Rh-positive transfusion, 683
suppression with ARA-cytidine, 711
Infants
heart failure, ethacrynic acid for, 171
hematoma, subdural, 397
intersexuality, operation for, 173
intestinal obstruction, 425, 1373
nasotracheal intubation, 688
newborn, acid-base balance, 906, 1373, 1374
alimentary tract anomalies 881
artificial ventilation, 449
atresia, choanal, 449
blood pressure, 1154
brachial plexus paralysis, 195
cardiac disease, 448
cerebral angiography, 395
cholestasis, 449
chromosomal anomalies, 1153
electrocardiograms, 449
emphysema, 869
exchange transfusion, 1373
hemorrhage, 684
hydrops fetalis, 189
infection, hexachlorophene for, 1373
intensive care crib, 1153
intestines, obstruction, 1373
perforation, 906, 1154
meconium ileus, 665
of mothers who smoke, 447
obstructive jaundice, 1185
ovaries, carbohydrates and steroids in, 450
postoperative gastric secretion, 1360
renal function, 450
tumors, 452
umbilical artery catheterization, 212, 906
after vacuum extraction, 1153
tumors, retroperitoneal, 419
Infection
blackwater fever, 1397
candida septicemia, amphotericin B for, 932
cryptococcosis, 1398
germ theory, 688
hospital-acquired, Pseudomonas aeruginosa, 222
hydatid disease, 472
listeria antibodies, 472
rabies, extraneural, 1398
sepsis, puerperal and postabortal, 446
staphylococcus aureus, antibiotic resistance, 1174
tetanus, 221, 223, 1174
venereal, 952
Instruments and apparatus
catheter, balloon-tipped, 1137

electronic oscillometer in neonates, 1154
halo traction device, 1385
intensive care crib for neonates, 1153
operating microscope, in cerebrospinal vascular disease, 710
oxygenators, centrifugal, 692
pump, 221, 1399
pacemakers, 1125, 1351
infection with, 661
resuscitation cart, 1171
Starr-Edwards ball valve, degeneration, 662

Intestines
anastomosis, 199, 879
anus, carcinoma, 666, 879
fissure, 179
fistula, fetal duct study, 175
hemorrhoids, 1392
Paget's disease, 881
ulcer, 179
arterioles, in endotoxin shock, 471
colon, adenoma, 177
anastomosis, 177, 462, 1360
cancer, 177
carcinoma, 665, 1133, 1408
prognosis, 1133
premalignant lesions, 1132, 1133
recurrence, 424
colectomy, 1133
diagnosis, double contrast study, 473
Duhamel's operation, 421
Hirschsprung's disease, 177
inflammation, 882, 1131
motor activity in, 1131
neoplasms, 1358
operative complications from antibiotics, 176
perforation in neonates, 1154
peristalsis, 1132
polyps, 881, 1130
sigmoid flexure, cancer, 665
diverticulitis, 1357
duodenum, ampulla of Vater obstruction, 181
craters, 1402
diverticula, 883
excision, 1137
grafts, 240
hematoma, 228
hemorrhage, from aspirin intake, 1131
perforation, 665
polyps, 181
stenosis, 883
stump closure, 1136
ulcers, 420, 884, 1133
anastomotic, 880
gastric acid secretion with, 887
gastroenterostomy and vagotomy for, 1129
perforated, 421, 883
vagectomy and pyloroplasty, 421
vagotomy for, 666, 881, 883, 886
subdiaphragmatic, 886
fistulas, 1360
jejunum, diverticulosis, 880
dumping syndrome, 1359
obstruction, 423, 425, 1373
omphalocele with gastroschisis, 1360
perforation, 906
rectum, cancer, carcinoma, 665, 1133
cancer, preoperation irradiation, 939
survival, 665, 1133
ganglion cell distribution, 421
hemorrhoids, 880
megarectum, 884
polyps, 1130
procidentia, 879
roentgenography, 1181
tumors, 175
resection, 1359
small, malignant lesions, 179
trauma in children, 178
tumors, contractile, 881

Isotopes
Au^{198}, 232
Cr^{50}, in red cell survival measurement, 475
dilution studies, 943
Fe^{59}, in pregnancy, 1149
In^{113m}-labeled ferric hydroxide, 1184
iodine, 1108, 1183
I^{125}-fibrinogen, 1391
I^{125}, in melanoma, 651
I^{131}, geographic variation in uptake, 149
for hyperthyroidism, 147, 148
hypothyroidism after therapy, 147
in pregnancy, 1149
uptake determinants, 149
Ir^{192}, 1184
$MAAI^{131}$, 1185
Rb^{81} and Cr^{51}-labeling of red cells, 1170
selenomethionine, 181, 392, 902
Sr^{85}, 231
Tc^{99m}, 696
Tc^{99m} pertechnetate, 476
xenon, in pulmonary embolism, 1186
Xe^{133} in blood flow measurement, 231, 706

Jaw
aneurysmal bone cysts, 146
fibro-osseous lesions, 644
fractures, 858
masseter muscle hypertrophy, 642
tomography, 937

Joints
acromioclavicular, 914
ankle, fracture, 1388
after burns, 455
carpometacarpal, 210, 922
cartilage, cysts in, 206
degeneration of, 1383
disease, tabetic, 917
hip, arthrodesis, 679
arthroplasty, 913, 914
degeneration with age, 207
dislocation, congenital, 917
dysplasia, congenital, 203
Legg-Calvé-Perthes disease, 1387
synovitis, 1387, 1389
thigh flap procedure, 680
interphalangeal, camptodactylia, 917
knee, amputation, rehabilitation, 1162
ligament stability, 1161
meniscectomy, 205
meniscus injuries, 1386
semilunar cartilage cysts, 206
necrosis, Sr^{85} scan in, 231
radioulnar, roentgenography, 938
rheumatoid arthritis, metacarpophalangeal ulnar deviation in, 210
shoulder, roentgenography, 936
synovitis, radioisotopic therapy, 232

Kidneys
blood supply, arterial occlusion, 927
barbiturates and, 451
effect of contrast media, 944
fibromuscular dysplasia, 682
operation, and renogram curves, 1379
roentgenography, 681, 944, 1168
Xe^{133} measurement, 231
calcium effects, 908
calculus, coralliform, 199
infrared spectrophotometric analysis, 909
magnesium and pH in, 1380
matrix, 907
uric acid in, 1157
urinary composition with, 200, 1380
carcinoma, 179, 453
resectable, 454
compensatory growth, 1377
cyst aspiration, 676
cystine in urine, 910
dialysis, 238, 910
disease, arterial, 673
cystic, 453
hydronephrosis, 1379
effect of live measles vaccine, 1380
in pregnancy, 441
diverticulum, calyceal, 1377
excision, 451, 908
failure, acute, 673
oliguria during, 1397
fetal canine, as source of renin, 943
function, in arterial hypertension, 452
during bloodless perfusion, 1380
in neonates, 450
posttraumatic, 1378
after transplantation, 479
and wound healing, 233
Goodpasture's syndrome, pulmonary lesions in, 1413
hypertension, 214, 452, 907, 910
inflammation, 911, 1181
pyelonephritis, experimental, hyperbaric oxygen in, 224
insufficiency, postoperative, 1171
ischemia and cell death, metabolic alteration, 233
perfusion, in the baboon, 707

phosphate reabsorption, 697
radiation damage, 941, 1181
roentgenography, hemodynamics during, 1168
transplants, 1409
angiography, 478
antilymphocyte serum, 237, 239
cadaveric, 238, 480, 705, 1191, 1411, 1412
from cancer patients, 708
electrophoresis, 950
gastric acid secretion, after, 1412
hyperparathyroidism after, 1189
immunoglobulin and fibrin in, 947
immunosuppressive drugs, 949
isografts, 947
living donors, 478, 705, 947
preservation, 478, 711
rejection, 240, 709, 710
serotyping, 239
sodium regulation and renin secretion, 1190
trauma, 909, 1157
tuberculosis, 673
tumor, 1379
early diagnosis, 907
hypernephroma, metastatic, 1157
in neonates, 452
sarcomas, 451, 452
Wilms', 199, 451, 675
ureteroneopyelostomy, 454
urine crystallization, 909
and vaginal prolapse, 200

LARYNX
abductor paralysis, 147, 862
cancer, carcinoma, 389
carcinoma, postcricoid, 391
squamous cell, 391
prognosis, 390
excision, 146, 1338
airway obstruction after, 390
hyposmia after, 389
stenosis, 146
tumor, sarcoma, 389, 390

Liver
abscess, amebic, 184
biopsy, 1404
cancer, carcinoma, and alpha[1] globulin, 902
scans of metastases, 1404
cholestasis, hereditary, 1135
cirrhosis, 428, 898, 1363
coma, cross circulation with baboon for, 428
management, 426, 428
disease, and ethanol oxidation, 1135
function in pig after perfusion, 1410
halothane and chloroform effect on, 689
hepatopneumopexy for ascites, 1362
hydatid cysts, 889
inflammation, acute, management in children, 1397
in hemodialysis unit, 217
immunologic aspects, 183
malignant, in pregnancy, 1371
lymphatic ducts, 428
regeneration, after arteriovenous anastomosis, 700
resection, 427, 1137
by laser, 889
metabolic change after, 1361
scintiscans, 231, 476, 1404
transplants, canine, 947
changes in blood, 238, 1190
human, 706, 947
trauma, 891, 1362
tumors, 476, 888
wounds, cyanoacrylate adhesives for, 1400

Lungs
actinomycosis, 653, 1350
alveolar epithelium, cytochemistry, 654
aspergillosis, 406, 408, 1119
atelectasia, 933
biopsy, aspiration, 163, 867
transbronchial brush, 654
blood supply, bronchial arteriography, 1179
capillary thrombosis in septicemia, 688
hemodynamics, 1126
microcirculatory damage, 221
bronchial stump closure, 163
bronchopneumonia in children, 407
bullae, 653
cancer, adenocarcinoma, 1121
carcinoma, 1122
azygography in, 1348
bronchography, 1401
classification, 1121
and dysphagia, 1348
electromyographic findings, 1348
lobectomy for, 406, 1346
oat cell, 655
preoperative function studies and prognosis, 162
radiotherapy, 1182
radiation and chemotherapy, 868
sputum cytology, 1119
and tuberculosis, 654
lymphocyte cultures, 868
metastatic, 1347
mortality, 409
scar, 411
and steroids, 868
survival, 868, 1345
vena caval obstruction, 655
contusion, 1345
cryptococcosis, 1119
diffusion capacity, and vascular occlusion, 697
disease, hyaline membrane, 869, 1119
lues, 1346
obstructive, glucocorticosteroids, 1346
parenchymal, needle biopsy for, 161
embolism, 1349, 1392
anticoagulants for, 657, 659, 1393
after caval ligation, 926
with contraceptives, 435
isoproterenol in, 409
isotopic diagnosis, 941, 1186
operation for, 1122, 1353
in pregnancy, 441
prevention, 1349
roentgenography, 225, 869
from tumor, 867
emphysema, 869, 935
farmer's, 407
function, effect of aerosols, 1175
with cardiopulmonary bypass, 161, 1399
change after lymphangiography, 225
evaluation in bronchial carcinoma, 1347
with heavy fluid load, 233
in hyaline membrane disease 869
hypoventilation, postoperative, 1393
mountain sickness, 1414
in neonates, 449
after radiation, 406
and rectilinear scintiscanner, 1120
with scoliosis, 913
after thoracic operation, 408
hemorrhagic shock and, 219
hepatopneumopexy for ascites, 1362
histoplasmosis, 1122
infarction, roentgenography, 1180
isotopic assessment, 1185
macrophages, enzymatic changes in, 1120
middle lobe syndrome, 867
mycosis, 168, 406, 407
perfusion patterns in bronchial carcinoma, 941
resection, in children, 1120
sequellae, 163, 405, 408, 1345
respiratory distress, digitalis for, 1374
scintiscans, 213, 231, 1186
In^{113m}-labeled ferric hydroxide, 1184
silicosis, 213
splenopneumopexy for portal hypertension, 1363
stenosis, expiratory, 1347
tuberculosis, 405, 408
and carcinoma, 654
simulating mediastinal tumors, 874
tumors, azygography, 228
lymphoma, 162
lymphosarcoma, 1350
malignant, nonepithelial, 164
sarcoma, 654

Lymph nodes
inguinal-iliac, dissection in melanoma of the leg, 651
pelvic, irradiation of, 475
peripheral, irradiation and radical mastectomy, 159
roentgenography, 473
sarcoidosis in children, 950
scalene biopsy, 1346
scanning, with radioactive colloidal Au^{198}, 232
tumors, melanoma, dissection for, 158, 651
metastasis, effect of hyperbaric oxygen in mice, 224

sarcoma, reticulum cell, 1117
Lymphatic system
edema, 215
in extremities, after phlebitis, 215
hepatic, 428
Hodgkin's disease, BCNU® for, 216
metastasis, surgical management, 215
in pancreatitis, 468
regeneration after hysterectomy, 468
retroperitoneal, 1180, 1401
roentgenography, in the bladder, 454
in children with cancer, 227
chlorophyll in, 226
oil contrast, 214
in ovarian seminomas, 185
and supplementary examination, 225
in upper extremities, 928
scintiscan, after neck dissection, 150
tumors, melanoma, perfusion for, 158

Mediastinum
emphysema, 177
mediastinoscopy, 164, 663, 664, 874
tumors, 417, 664
malignant, nonepithelial, 164
as primary tuberculosis, 874
radiotherapy, 1356
Metabolism
oxalate, 911
phenylketonuria, maternal, 444
sodium pool, 475
Mouth
cancer, 420, 643
carcinoma, 390
rehabilitation, 861
cytologic study, response to stilbestrol, 435
lip, cancer, 643
cleft, 643, 860, 1337
maxillary osteotomy for, 652
nasal corrections, 641
palate, cleft, 643, 1337
cleft, prosthesis, 389, 391
repair, 641, 652
and speech, 391, 645
tomography, 862
tumors, 643
tongue, cancer, 644, 1181, 1337
tumor, submandibular flap approach, 391
Muscles
dystrophy, contraction with, 1116
in prostate gland, 197
quadriceps, 918
rectus, diastasis in pregnancy, 191
sphincter, choledochoduodenal, 886

Neck
carotid artery, protection during operation, 862
carotid body tumors, 393
hyoid bone, pathologic and clinical features, 150
tumors, neurogenic, 150
Nerves
anastomosis, with adhesive tape, 1342
axons, growth through grafts, 650
regeneration, experimental, 649
brachial plexus, injuries, 1178, 1341
paralysis, 195, 1116
cranial, vagotomy, diarrhea after, 423
facial, anatomy of, 1114
"gangliolysis", 647
great occipital, changes from cooling, 1113
median, 477, 649
peripheral, funicular orientation, 650
repair with silastic cuff, 156
trauma in upper extremity, 1341
peroneal, injuries, traction, 1341
roots, conduction studies, 155
sciatic, traumatic paralysis, 1115
spinal abnormalities, 1341
subcostal compression syndrome, 156
sympathetic, excision, for hyperhidrosis, 156
trigeminal neuralgia, 647
tumor, neuroblastoma, chromosomes in, 1112
ulnar, compression, 1342
vagus, intrathoracic neurinoma, 664
Nervous system
central, malignant tumor, 1339
medulloblastoma, 1402
in children, after poisoning, 649
pallesthesia in stroke patients, 1113
radioisotopic diagnosis, 232
sympathetic, and shock, 221
tetanus and, 221
tumors, 1111, 1339, 1402
Nose
cancer, carcinoma, epidermoid, 387
carcinoma, laminagraphy, 227
choanal atresia, 449
frontonasal syndrome, 652
intubation in children, 224, 688
plastic repair, with cleft lip and palate, 641
of tip, 158
rhinorrhea, cerebrospinal fluid, 396
tumors, fibroma, 388
teratomas, 1336
ultrasonography, 860

Ovaries
abscess, 433
carcinoma, cyclophosphamide therapy, 945
enzyme changes with, 1369
corpus luteum, 1141, 1145
dysfunction, 668, 1143, 1365
dysgenesis and hypoplasia, in amenorrhea, 1140
follicle, fluid, 1368
rupture, 434
function, with clomiphene citrate, 234, 667
with estrogens, 668
with gonadotropins, 893, 1143
lactation and, 446
urinary ascorbic acid in, 434
hirsutism, 1366
in neonates, carbohydrates and steroids in, 450
neoplasms, 894
polycystic, 1367
problems in children, 185
steroid hormone formation, 894
tissue, chromosomes in, 893
transplants, corneal encapsulated, 1409
tumors, Brenner's, 432
in children, 186
enzymatic cells, 1139
histochemical and enzyme analysis, 1142
Krukenberg, 434
mucinous, deoxyribonucleic acid content, 1367
seminomas, 185
teratomas, 895
wedge resection, clomiphene citrate and, 429

Pancreas
acinar cell regeneration, 426
biopsy, 1138
cancer, 1362
arteriography, 888
carcinoma, 889, 1135
mental symptoms in, 425
cysts, 889, 1135, 1138
diagnostic methods, 1177
duct, excretory, 1136
ligation, 1405
Wirsung's, 936
excision, 181, 1137
inflammation, after biliary tract operation, 891
choledochoduodenal anastomosis for, 182
chronic, 181, 890
ductal mucosa barrier, 1187
hemorrhagic, 890
lymphography for, 468
peritoneal dialysis for, 183
pleural effusion after, 1135
portal hypertension in, 427
roentgen ray therapy, 891
islets of Langerhans, tumors 1361
operations, anatomy in, 1138
pancreaticoduodenectomy, 887
rupture, traumatic, 890
scintiscan, 181, 942
secretion, 697, 1187
steatorrhea, hydroxic acid excretion, 1137
transplants, islet cells in, 948
preservation, 709
rejection, 240
trauma, 183, 890, 1135
tumors, and diarrheogenic hormone, 700
islet cell, 182, 425
Parathyroid glands
hyperparathyroidism, 1108, 1338
plasma citric acid in, 148
radioisotope scans, 392
urolithiasis, 149

hypoparathyroidism, 148, 389
secretion, 645
Parotid gland
carcinoma, epidermoid, 147
enlargement in diabetes mellitus, 1107
operations, 146
tumors, 642
adenoma, pleomorphic, 1336
Pelvis
fractures, 913
injuries from crushing, 914
Penis
carcinoma, 393
hypospadias, 198
priapism, cavernosaphenous shunt, 1155
transplants, scrotal skin, 652
Peritoneum
blood, incoagulability, 1141
dialysis for acute pancreatitis, 183
effusion, malignant, 1407
fluid cytology, 432
inflammation, from bile, 889
cause of death, 233
in children, 876, 933
Pharynx
cancer, 420
carcinoma, laminagraphy, 227
radiotherapy, 229
cricopharyngeus muscle, dysfunction with diverticula, 873
cyst, pre-epiglottic, 644
pharyngotomy, 862
reconstruction, function after, 862
tonsil, carcinoma, 390
cryotonsillectomy, 1337
tumors, fibroma, 388
teratomas, 1336
ultrasonography, 860
velopharngeal incompetence, 861
Zenker's diverticulum, 861
Pituitary gland
dimension study, 225
dwarfism, growth hormone levels, 1192
function, in hemochromatosis, 1112
with tumors, 648
operations, for advanced breast cancer, 1111
stereotaxic, 1339
regeneration, 649
tumors, 396, 1182
during pregnancy, 1148
Pleura
cysts, 1350
dead space, phrenoplasty for, 163
effusion, hemorrhagic, 1135
malignant, 1407
empyema, nonspecific, 161
Portal vein
hypertension, 184, 427, 666
splenic transposition for, 184
portacaval anastomosis, 923, 1109
for varices, 464, 1168
Prostate gland
abscess, 197, 1375
atomic absorption spectrophotometry, 1375
cancer, 1155
carcinoma, 1155
bone scans for, 1185
hormone therapy and radical prostatectomy, 1375
origin, 1375
cryosurgery, blood loss with, 197
excision, 671
musculature, 197
myosarcoma, 454
needle biopsy, transrectal, 197
phosphatase change, 1155
testosterone metabolism, effect of estrogens, 1375

Radiation
during cardiac catheterization, 693
chromosomal aberrations, 939
cobalt, 229, 676
diagnosis of epiphyseal abnormality, 474
with hyperbaric oxygen, 940
injurious effects, bladder and rectal complications of cervical irradiation, 1143
growth impairment, 939
intestinal, 424
in the kidneys, 941, 1181
leukemia, 229, 1181
during pregnancy, congenital defects and abortion, 439
from ultrasound, 936
urologic complications after cervical irradiation, 429
radiosensitivity of tumors, 236, 1403
therapy, in bladder carcinoma, 201, 676
blood bubbles after, 699
for bone tumor, 1403
for brain metastases, 1183
in cervical carcinoma, 229, 429, 474, 1143
recurrence after, 1403
conventional and supervoltage, 228
for craniopharyngiomas, 229
cycloradiotherapy, 229
in endometrial cancer, 431
for esophageal cancer, 229
fractionation in, 230, 940
with grid, 941
of pelvic lymph nodes, 475
in pulmonary carcinoma, 1182
of soft tissue sarcoma, 940
superior vena cava syndrome, 1182
telecobalt, 229
for trophoblastic metastasis, 1184
in ureteral carcinoma, 1158
Roentgen rays
contrast media, in abdominal stab wounds, 1357
barium in the rectum, 1181
in the colon, 473
gas and opaque material, 938
negative tomography, 1177
oil, lymphography with, 214
para-amino hippuric clearances, 945
Polytome-Pantopaque®, 145
reactions, 474, 693
renal hemodynamics with, 944
tantalum, 694
Thorotrast®, 473
diagnosis, in the abdomen, 696, 878, 1357, 1401
angiocardiography, 228, 935
angiography, brachial, in carotid artery occlusion, 863
in splenic trauma, 227, 1180
in the aorta, 226, 1125
in appendicitis, 473
arteriography, cerebral, 395, 465, 694
coronary, 938
of posterior fossa tumor, 395
in renal carcinoma, 1179
visceral, 1402
in the biliary tract, 227, 428, 693, 1178
of bone metastasis, 227
brachial plexus injuries, 1178
in brain stem, 473
in bronchial cancer, 694, 941, 1401
bronchography accuracy, 1401
in cerebral tumor, 937
in the cleft palate, 862
colonic and rectal polyps, 1130
discography, 206, 692, 1340
echoencephalography, intracranial lesions, 1339
of emphysematous changes, 935
gastric carcinoma, 1359
of heroin intoxication, 937
hypertrophic pyloric stenosis, 1357
intraoral, 643
jaw, 937
in laryngeal carcinoma, 642
in the lungs, for cancer, 695, 1401
for embolism, 869
for hypertension, 938
for infarction, 1180
lymphatic system, 225, 227, 1180
in children with cancer, 227
lung function change after, 225
in vulvar carcinoma, 1369
myelography, 1179, 1341
of nasopharyngeal tumor, 227
pancreatic disease, 1177
in the pontocerebellar cistern, 225
of portal circulation, 426
positioning stand, 1184
after pyloromyotomy, 174
in renal tuberculosis, 673
in the shoulder, 936
urinary tract tumors, 1377
venography, cavernous sinus, 1177
venography, lumbar, 695, 1180
Wirsung's duct, 936
therapy, for advanced malignant disease, 865
of head and neck cancer, 1403
lung function change after, 406
mediastinal seminoma, 1356
medulloblastoma, 1402
pancreatitis, 891
of the penis, carcinoma in, 939
positioning for, 1184
in rectal and rectosigmoid cancer, 939

for Scheuermann's disease, 1161

SALIVARY GLANDS
tumors, 147, 645
Scintiscans
in bone, 231, 1185
brain, positron emitter in, 1404
color, 942
diagnosis, of intracranial cyst, 231
of renal radiation injury, 941
kidney, 230, 430, 450
liver, 231, 476, 1404
lung, 213, 231, 941, 1185, 1186
lymphatic system, 150
in pelvic cancer, 1368
placental localization, 696, 942
of portal circulation, 426
rectilinear scanner, and ventilation-perfusion, 1120
in synovitis, 232
for toxic goiter, 230
Shock
adrenergic blocking agents, 221
bacterial, in septic abortion, 897
blood viscosity, 220
cardiogenic factor, 220
central venous pressure in, 686
endotoxin, 471, 686
beta adrenergic blockade in, 1397
energy pathway block, 471
gram-negative, 1397
hemorrhagic, endotoxin-induced tolerance, 220
experimental, 685
lung change with, 219
myocardial depressant factor, 1396
and plasma substitutes, 686
sympatho-adrenal factor, 220
pseudomonas exotoxin, 219
septic, 687
trauma center care, 471
vasoactive drugs for, 1174
Sinuses
ethmomaxillary, cancer in, 651
pilonidal, 158
Skin
grafts, displaced, 401
shave and split skin, for scarring, 157
healing, hyaluronic acid in, 1396
melanoma, 158, 391, 865, 1117
shin spots, in diabetes mellitus, 865
Spinal cord
cervical, 155
cordotomy, 155, 1115
cyst, extradural, 1114
fluid analysis, 1339
function, posttraumatic, in primates, 400
lesions, and rehabilitation, 155
myelomeningocele, 399, 1388
neoplasms, 864
trauma, adjunctive care, 1114
decubitus ulcers after, 1117
Paget's disease, 1115
paraplegia, spinal metastases, 399
pseudoclaudication syndrome, 1115
tabes dorsalis, 649
tumors, in pregnancy, 399
Spine
atlas and axis, instability, 918
cervical, discography, 1340
fusion, 458
intervertebral space, 936
manual examination, 206
rheumatoid spondylitis, 1161
whiplash injury, 1115
epidural space, Hodgkin's disease, 864
kyphosis, sternoclavicular dislocation in, 207
laminagraphy, for metastasis, 226
lumbar, bridge formation in, 205
disc, prolapse, 459
protrusions, 1179
roentgenography, 206, 693
venography, 1180
fusion, 459
nerve root conduction in disc operations, 155
lumbosacral, motion after operation, 208
myelomeningocele, foot deformity and paralysis, 1388
Scheuermann's disease, 1161, 1162, 1163, 1164
scoliosis, congenital, 457
and pulmonary function, 913
thoracic deformity from, 1162
traction, by the halo apparatus, 1385
tumors, 203, 399
sacrococcygeal teratoma, 458
Spleen
cysts, in children, 216
excision, 1362
in blood diseases, 216
and splenomegaly, 1170
red cell uptake, 1170
splenopneumopexy, for portal hypertension, 1363
transplants, hemophilia therapy, 711
transposition, for portal hypertension, 184
trauma, angiography, 227
Steroids
aldosterone, and metabolism, 698
Stomach
arteries, aneurysms, intraperitoneal hemorrhage from, 175
distribution, 422
bezoars, complications after gastrectomy, 422
burns, corrosive, 424
cancer, carcinoma, 878
carcinoma, roentgenographic detection, 1359
mortality, 882
operations, 1359
cardiospasm, 417, 1127
excision, 178
esophagojejunostomy, 886
gastroscopy, 176
hemorrhage, from aspirin intake, 1131
during pregnancy, 1148
histamine and histidine decarboxylase in experimental animals, 1188
perforation, 665
pyloric gland area, 176
pylorus, hypertrophic, 1357
radiologic findings after myotomy, 174
reconstruction, 887
stenosis, infantile, 879
resection, duodenal blowout after, 1130
rupture, traumatic, 1128
secretion, 878
effect of atropine, 702
gastrin release, 699
after kidney transplants, 1412
mucus, 699
postoperative, in neonates, 1360
and prostaglandin E_1, 698
after small intestinal bypass, 174
in uremia, 1412
vagal influence, 887
after vagotomy, 702, 1132, 1187
after vagotomy and antrectomy, 424
tumors, 665, 695
ulcers, 1133
acid secretion after vagotomy, 179
anastomotic, 880
with duodenal deformity, 878
with hiatal hernia, 420
operative techniques, 420, 1131
peptic, 178, 883
mucosal competence, 234
perforated, 883
vagotomy for, 881
perforated, 883
recurrence after vagotomy, 880
vagotomy for, 179, 882, 883, 885
vagotomy, incomplete, 1132
incomplete, secretory potential, 1132
Zollinger-Ellison syndrome, 697
Surgery
consciousness disturbance, 929
fibrinolytic activity, 929
infection from surgeon's gown, 1398
postoperative care, automated, 929, 1171
balanced salt solutions, 469
postoperative complications, delirium tremens, 929
renal insufficiency, 1171
reconstruction, intraoral, roentgenography after, 643
saline infusion and protein excretion during, 683
sutures, catgut absorption, 1406
Hoxworth rigid wire, 876
technique, abdominal hysterectomy with ureteral protection, 1369
in aberrant right subclavian artery, 1352
antiseptic hand scrub, 469, 471
arytenoidectomy and hemicordectomy, for bilateral abductor paralysis, 147
for ascites, hepatopneumopexy, 1362
bilateral adrenalectomy and oophorectomy, 1343

bilateral flap operation for craniosynostosis, 1110
Billroth II gastric resection, duodenal blowout after, 1130
chemosurgery, in basal cell carcinoma, 1343
cryopexy in retinal detachment, 638
cryotonsillectomy, 1337
esophagojejunostomy with gastrectomy, 886
in ethmomaxillary cancer, 641
eyelid support with dermal flap canthal lift, 1343
incision, isolation of, 932
transverse, in mastectomy, 402
for tubal ligation, 433
intestinal anastomosis, double and single layer, 882
ligation for hemorrhoids, 1392
mandible repair, 636
in massive pulmonary embolism, 1122
nephrectomy, cyanoacrylate adhesive and amniotic tissue, 451
for nerve anastomosis with adhesive tape, 1342
"open" and "closed" treatment of middle ear, 641
plastic repair, of nose tip, 158
in prisoners, 866
portacaval shunt for variceal hemorrhage, 1188
position for cholecystectomy, 890
for pyloroplasty, 887
Schauta vaginal hysterectomy, 431, 667
of Sir Harold Gillies, 866
submandibular flap approach for oral tumor, 391
supraglottic laryngectomy, 1338
ureterostomy, for neurogenic bladder dysfunction, 1160
urethroplasty, 1382
with scrotal flap, 201
urinary diversion by cutaneous ureteroureterostomy, 675
for urinary incontinence, 1378
in urinary tract, transperitoneal route, 909
uterine reconstruction, 186
trauma, from electrolyte response, 1171
wounds, cyanoacrylate adhesives, 1400
Syndromes
Apert's, 639
blind loop, 174
carpal tunnel, 400
costoclavicular, 681, 682
Cushing, 236
Down's, 440
galactorrhea-amenorrhea, 1141
Gardner's 207, 389, 390
Goodpasture's, 1413
Hurler's, 712
Klinefelter, 671
polycystic ovaries, 1367
pseudoclaudication, 1115
scalenus anticus, 203
Sjogren-Larsson, 386
subclavian vein obstruction, 682
thoracic outlet, 646
Zollinger-Ellison, 697
Tendons
Achilles, rupture, 1389
blood supply, mesotendineum in, 1164
flexor, injuries in fingers, 920
pulleys, 1389
suture, 1399
peroneal, 209
rotator cuff, inflammation, 208
Testes
rupture, early operation, 1376
semen, antibodies and sterility, 671
fructose in, 671
isoenzyme pattern, 672
torsion, 672, 1156
tumors, 672, 1156
Thorax
actinomycosis, 653
biopsy, scalene node, 1121
chylothorax, 942
costoscalene compression, motor and vasomotor function, 681
deformity with scoliosis, 1162
empyema, 471, 655
flail, stabilization of, 867
injury, crush, 218
intrathoracic lesions, diagnosis, 874
mediastinoscopy, 164
operation, for extensive malignant tumor, 410
and respiratory disturbances, 408
outlet syndrome, 161
pneumothorax, 164
silver nitrate pleurodesis, 407
spontaneous, 163, 409
thoracotomy after cancer, 405
tumors, in wall, 410, 867
Thymus gland
congenital dysplasia, 948, 951
excision, lymphoid cells after, 1191
fetal implant, 948, 950
Hodgkin's disease, 1355
neoplasms, 171, 476
operation for, 417, 1127
thymoma, granulomatous, 1356
Thyroid gland
cancer, carcinoma, 149, 393, 1338
carcinoma, calcitonin in, 147, 148, 393
radioactive iodine, therapy, 1183
disease, prophylaxis, 148
function, effect of catecholamines, 1108
goiter, toxic, scintiscan, 230
hormone therapy, 1107
hyperthyroidism, phosphate reabsorption with, 697
hypothyroidism, after I^{131} therapy, 147, 148, 1108
inflammation, autoimmune, 862
long-acting stimulator, 645
nontoxic nodules, 646
radioiodine uptake, 149
Tc^{99m} pertechnetate scintiscans, 476
thyrotoxicosis, 392, 1107
tri-iodothyronine suppression test, 392
tumors, Hürthle cell, 392
multiple, 202
Trachea
fistula, esophageal, 655, 662, 1355
intubation, in children, 150, 224, 688
stenosis, after assisted respiration, 1121
with cuffed tracheostomy tubes, 410
operation for, 1347
tracheostomy, 224, 410, 688, 1120
complications after, 653, 1349
injury after, 653
after open heart operation, 1126
with plastic tube, 150
Transplants
and antilymphocyte serum, 237, 239, 706, 707
arterial, in angina pectoris, 168
bovine, 213
in myocardium, 168
bone, alveolar ridges, 391
in cleft palate repair, 159
cornea, cadaveric, 144
storage, 238, 637
dermoepidermal, for neurofibromatosis, 651
gracilis muscle, for urinary incontinence, 1378
heart, and antigen compatibility, 948
canine, 479, 707, 708, 1410
coronary blood flow, 1412
human, 870, 1190, 1191, 1192, 1409, 1410
preservation, canine, 707, 708
heart valve, 169, 870, 873, 1124, 1125, 1353, 1354
aortic homografts for, 169, 413, 873, 1124
histocompatibility, 479, 1411
HL-A antigens, 950
across inguinal ligament, 466
kidney, 238, 239, 705, 949, 1409
angiography, 478
antilymphocyte serum, 237, 239
blood flow measurement with Xe^{133}, 706
from cadaver donor, 238, 480, 1191, 1411, 1412
leukocyte typing, 708
removal, 710
from cancer patients, 708
function, 479
immunoglobulin and fibrin deposits, 947
immunosuppressive drugs for, 949
isografts, 947
living donors, 478, 947
preservation, 478, 711
rejection, 240, 709, 710
canine, 709
and serum electrophoresis, 950

sodium regulation and renin secretion, 1190
from unrelated donors, 239
liver, coagulation after, 238, 1190
homogenous, 706, 947
Welch technique, 947
lungs, allografts, 239
nerve, axon growth in primates, 650
ovarian, 1410
pancreas, islet cell, 710, 948
preservation, 709
pancreaticoduodenal, 240
pedicle flap, blood flow in, 158
skin, allograft, 480, 931
on bare bone, 1384
for burns, 931
displaced, 401
after head and neck operations, 401
scrotal, to the penis, 652
shave and split skin grafts, 157
spleen, for hemophilia, 711
thymus gland, 948, 950
tumor cells in, 704
to tympanic membrane, 1336
ureter, grafts of bladder for, 452
uterus, canine, 240
venous, in arterial reconstruction, 924
autogenous, 926
cross-over grafts, 465
femoropopliteal bypass, 463
H-graft, 463

Trauma
abdominal, 876, 1129
accidental, from seat belts, 931, 1172
neurotrauma, 863
arterial, 1169
blunt, pancreatic rupture from, 890
brachial plexus, paralysis from, 1116
cervical, during labor, 1372
from chemicals, 1395
craniocerebral, 397, 647, 1339
craniotomy, 399
experimental, 1109
diaphragmatic, hernia after, 418
embolism, fat, 233, 1405
fat, experimental, 1406
esophageal, 663
eye, hyphema, 144
face, 143
great vessels, 465
hand, 921
inferior vena cava, 928
internal carotid artery, thrombosis, 464
and ischemia, 1396
kidneys, 909
kidney failure after, 1378
liver, 891, 1362
lungs, 1345
from motor scooter handlebars, 925
pancreas, 890, 1135
pelvis, crushing, 914
resuscitation and anesthesia after, 930
skeletal, and arterial injuries, 1391
spine, whiplash, 1115
spleen, 1180
surgical, electrolyte response, 1171
thoracic, 218, 685
urethra, male, 1381
vascular, 924, 1169
in war wounds, 1168
wringer injury, 459, 1390

Tumors
abdomen, malignant, 419
abdominal wall, 1357
adrenal gland, pheochromocytoma, 678, 912, 951
angiogenesis, 477
antigens, effects of, 1409
bladder, myosarcoma, 454
bone, Ewing's sarcoma, 1386
giant cell, 1403
brain, corpus callosum, 397
intracranial metastasis, 1112
meningiomas, 1114
oligodendrogliomas, 1110
posterior fossa, 395, 1110
breast, mesenchymal tumor and sarcoma, 160
papilloma, 402
in the rat, 1407
from breast rudiments, 159
bronchus, adenoma, 655
carcinoid, and Cushing's syndrome, 1347
carotid body, 393
cavernous sinus, 394
cells, susceptibility, during radiation, 236, 1403
in suspension, 1408
in transplantation, 704
central nervous system, malignant, 1339
medulloblastoma, 1402
chest wall, in disseminated breast cancer, 867
choroid plexus, papilloma, 151
colon, adenomas, 179
cranial fossa, 395, 1110
craniopharyngiomas, 229
cylindromas, 1107
differential diagnosis, electron microscopy in, 704
epitheliomas, laser therapy, 157
esophagus, 172
experimental, sarcomas, 946
eye, melanoma, 143, 144
head and neck, melanoma, 391
plasmacytoma, 150
Hodgkin's disease, epidural space, 864
intestine, contractile, 881
intracranial, computer-assisted diagnosis, 1113
kidneys, early diagnosis, 907
hypernephroma, 1157
sarcoma, 451, 452
solitary, 1379
Wilms', 199, 451, 675
larynx, sarcoma, 389, 390
leg, malignant melanoma, 651
liver, 888
lungs, embolization to, 867
lymphomas, 162
lymphosarcoma, 1350
sarcoma, 654
lymph nodes, Burkitt's lymphoma, 703
melanoma, 158
sarcoma, 1117
malignant, in infants and children, 186, 705
mediastinal, 664
seminoma, 1356
medulloblastoma, 1111
mesotheliomas, 1119
myeloma, and bone metastasis, 696
nasopharyngeal, fibroma, 388
neuroblastoma, 171, 1111, 1112
nonendocrine, in Cushing's syndrome, 236
orbit, 143, 638, 639
neurilemmoma, 386
reticuloendothelial, 385
ovaries, 434, 894
Brenner's, 432
deoxyribonucleic acid content, 1367
histochemical and enzyme analysis, 1139, 1142
malignant, in children, 186
teratomas, 895
palatal, 643
pancreas, islet cell, 182, 425, 700, 704, 1361
parotid gland, 642
pleomorphic adenoma, 1336
pelvis, radiotherapy, 941
pituitary gland, 396, 648, 1148, 1182
primary, in children, 237
prostate, myosarcoma, 454
radiosensitivity, 236, 1403
retroperitoneal, 173, 419
rhabdosarcoma, 474, 918
sacrococcygeal teratoma, 458
salivary gland, 147, 645
scapula, chondrosarcoma, 159
skeletal, 208
skin, malignant, 1343
melanoma, 158, 865, 1117, 1343
soft tissue, sarcomas, 651, 940
spinal cord, 399, 864
spine, 203
synovioma, 917
testes, spermatocytic seminoma, 1156
thymus gland, 171, 1128
thymoma, 1356
thyroid, Hürthle cell, 392
multiple, 202
ulcerogenic, 182
ureters, 1380
urethral, 911
uterus, lactic acid dehydrogenase in, 1367
myofibroma, 1365
vagus nerves, 664

Umbilicus
arterial catheterization in the newborn, 212
urachus, cancer, 877

Ureters
anastomosis with sigmoid, 199
anomalies, embryologic, 1158
bipolar recordings in canine experiments, 910
calculus, 910
carcinoma, radiation therapy, 1158

cutaneous ureteroureterostomy, 675
fibrosis, 451
fistulas, vaginal approach, 200
and ileal conduits, 907
infection, prophylaxis, 1160
reconstruction after trauma, 911
reflux, 199, 1158
reimplantation, 1378
tumors, 1380
ureteroneopyelostomy, 454
Urethra
carcinoma, in the female, 1159
primary, 1381
cytologic study, 1381
reconstruction, 1382
stricture, false, 1382
reconstruction after, 1382
sphincter function with, 1382
from trauma, 1381
tumors, 911
urethroplasty, scrotal flap, 201
Urinary tract
anesthesia with propanidid, 201
calculi, 673, 674, 676
cytodiagnoses, 673
fistulas, operation using vaginal approach, 200
infection, bacteriologic differentiation in children, 1379
suprapubic bladder aspiration in, 1382
reconstruction, infection, 453
schistosomiasis, 677
tuberculosis, 675, 1159
tumors, lymphography, 1377
ultrasonography, 1160
Urine
bacteruria, stick test, 676
estrogens in, 443
induced diuresis, for microbacteriologic diagnosis, 200
steroids in, 438
Uterus
amenorrhea, in puberty, 1145
bleeding, postmenopausal, 433
cancer, 1144
adenocarcinoma, 433
computer cell identification, 1365
choriocarcinoma, 186, 1140, 1368
chorionepithelioma, 945
invalidism after, 1139
leiomyosarcoma, 432
recurrence after exenteration, 1139
cervix, amputation and conization, effect on fertility and pregnancy, 1142
benign disease therapy, 1144
biopsy, 1366
in pregnancy, 430
cancer, carcinoma, 187, 430, 431, 894, 1140
carcinoma, clear cell, 431
cytopathology, 1144
epidermoid, 237
hysterectomy, 186
invasive, 432
in pregnancy, 194, 434
radiotherapy, 429, 474
recurrent, 1140
squamous cell, 1142
cytostatic drugs, 667
extension from endometrium, 1366
irradiation, 1403
leukemia after radiation, 229
radiosensitivity, 1142
radiotherapy, effect of diet, 896
conization, 185, 1142, 1145
dysplasia, 1365
experimental, 896
mucus crystalization, 442
neoplasia, diagnosis, 186, 705
pregnancy in, 444
smears, automated, 896
trauma, 1372
connective tissue, 899
contraction, stimulation, 895
suppression, with ethanol, 429
with isoxsuprine, 434, 445
in toxemic pregnancy, 1149
dysmenorrhea, 895
endometrium, cancer, carcinoma, 1139
cancer, radiation therapy, 431
"Helle Zellen", 667
ileal involvement, 886
and oral contraceptives, 893
excision, abdominal, 1369
lymph node and duct regeneration, 468
radical, 186
Schauta's, 431, 667
fetus, acid-base balance with halothane, 449
activity, 1150
arrhythmias, 448
artificial membrane rupture, 440
assessment in hypertension, 1152
birth, 1373
blood change in the scalp, 445
bradycardia from paracervical block anesthesia, 1398
cardiotocography, 1371
danger from endocrine therapy, 189
death, coagulation after, 668
deformity after chemotherapy, 193
distress, heart rate in, 445
Down's syndrome, 440
genetic defect detection, 1150
heart rate, 669, 934, 1147, 1152
hypoglycemia, 448, 668
immunity to bacilluria, 1146
intoxication with water, 445
intrauterine death, 1147
malnourished, 447
maternofetal transport of isotopes, 1149
maturity assessment, 443, 902, 1148
operation in the pig, 692
radiation injury to, 193
renin in canine kidneys, 943
rhabdosarcoma, 474
effects of toxemia, 1370
urachal malformation, 1357
water exchange with mother, 234
hydatiform mole, 185, 186, 188
incision and suture, in cesarean section, 893
infection, gas phlegmon in, 433
inversion, 894, 905
myofibroma, 1365
myometrial sclerosis, 1367
myometrium, 431, 943
neoplasms, aminopeptidase activity, 668
perforation, from contraceptive loop, 1144
placenta, abruption, 670, 1151
antigenicity, 479
chemical composition, 1154
dimensions, 1153
dysfunction, 189, 900
glycogen content, in fetal malnutrition, 1151
isotopic localization, 696, 942
lactogen level, 437
lactogenic hormone, 1371
and lidocaine, 934
meperidine transfer, 235
praevia accreta, 444
serum lactogen, 435
sonar study, 904
in toxemia, 670
transfer of methoxyflurane, 223
trophoblast cells, 236, 435, 449
and the use of ultrasonography, 669, 1179
pregnancy, abortion, cytogenetics, 669
abortion, fatal, 437
incomplete, 1366
in midtrimester, 898
septic, 192, 897
spontaneous, 440, 443
therapeutic, 438, 1148
vaginal smears in, 1150
abruptio placentae, 670, 1151
adrenergic blocking agents, 901
amniocentesis, 187, 191
amniotic fluid, analysis, 187, 193, 443, 1149
cytologic study, 1372
hypertonic saline injection, 435
volume, 438
bacteriuria, 897, 1146
blood gas during, 1370
cancer detection during, 188
cervical, 444
and cervical cancer, 194, 894, 898
cervical cell change, 896
cervical mucus in, 442
cesarean section, 187, 893, 1152
chemoantibiotics, 437
chorionic gonadotropin levels, 436, 1150
chorionic growth hormone prolactin, 442
chronic renal disease and, 441
coagulation in, 445
contraceptives, blood constituents, 188
blood pressure changes with, 436
and emotional disturbances, 1146

intrauterine, 440, 477, 1139, 1150
oral, 434, 435, 669, 900
side effects, 430, 899, 900
thromboembolism with, 442
contractions, fetal blood during, 445
creatinine clearance rates, 897
cytologic tests, 443, 1147
death from heart disease, 190
defibrination, 1371
delivery, breech, 445
compound presentation, 904
irregular head presentation, 446
premature, 897
detection of fetal disorders, 1146
diabetes in, 191, 438, 901, 1149, 1150
dyspermia, 1376
eclampsia, 443, 903
ectopic, 440, 899, 902
electrocardiograms during, 477
estriol in prognosis, 900
estrogen excretion, 443
fetopelvic disproportion, 194, 195
fibrinolysis, 439, 899
glucose uptake, 1371
and gonorrhea, 903
heart operation during, 656, 1127
hemoglobic C disease, 898
hemorrhage, 189, 1148
hepatic cirrhosis in, 898
hepatic coma, 1371
histidine excretion, 668
hydatiform mole, 441, 902
hydramnios, 1153
illegitimate, 444, 1151
jaundice during, 188
labor, insulin levels during, 905
lidocaine during, 1175
oxytocin induction, 194
paracervical block in, 194
toco-algography, 195
with ureterovaginal malformation, 194
low weight dextran in, cardiovascular effects, 192
maternal mortality rates, 190, 1371
membrane rupture, premature, 191, 192, 440
molar, 1370
nonerythrocytic antibodies, 448
oblique lie, 903
peripheral progesterone level, 436
plasma diamine oxidase in, 904
plasma estriol level, 190
plasma progesterone, 438, 446
prednisolone, and glucose tolerance, 901
proteinuria, effect on infants, 1152
puerperal infection, 670
pulmonary embolism in, 441
radiation and, 439
rectus muscle diastasis, 191
Rh-immunization by, 898
rubella susceptibility, 899
sepsis, puerperal and post-abortal, 446
serum fibrin degradation, 1370
and smoking, 439, 447
sodium excretion in, 439
sports during, 901
tests for, 1370
thrombophlebitis, 1372
toxemia, 193, 444, 640, 670, 1370, 1372
transfusion during, 440
tumor during, pituitary gland, 1148
spinal cord, 339
ulcerative colitis during, 882
ultrasound in, 669, 902, 1147, 1176
in unwed teenagers, 1151
urinary estriol in, 189, 195
urinary steroids in, 1143
and varicose veins, 681, 1147
problems in children, 185
prolapse, geriatric, 187
puerperium, thromboembolism during, 905
reconstruction, 186
ruptured, suture, 188
transplants, canine, 240
tumors, lactic acid dehydrogenase in, 1367

VAGINA
atresia, 896
cytology, response to stilbestrol, 435
fluid enzymes, 1146
inflammation, desquamative, 1145
with oral contraceptives, 434
povidone-iodine therapy, 1369
prolapse, 200
Vas deferens
excision, 671
Venae cavae
anomalies, congenital, 1392
inferior, abnormal valves, 467
anomalies, 925
ligation, for pulmonary embolism, 1392
occlusive cavagrams in shunt evaluation, 461
plication and ligation, lower limbs after, 1167
thromboembolism, ligation for, 926
trauma, 928
ligation, and pulmonary embolism, 926
portacaval anastomosis, 464, 923, 1109
superior, obstruction with lung cancer, 655
reconstruction, 468
Vitamins
B_{12} uptake by Escherichia coli, 174
Vulva
carcinoma, 897, 1369, 1370

WOUNDS
abdominal, laparotomy for, 219
from blank cartridges, 1395
cardiac, healing, 661
penetrating, 166, 1124
dehiscence, rectus hematoma in, 929
experimental crush, 685
healing, with aluminum sutures, 698
cationic detergents, 651
and immunologic stimulation, 931
with renal failure, 233
infection, anaerobic, 688
antibiotics in, 221
in clean wounds, 472
missile, infection in, 219
pancreatic, 183
pericardial, 658
snakebite, 218
war, closure in the hand, 209
cyanoacrylate hemostat, 1400
management, 930
vascular, 1166, 1168